Future of Robo-Advisors in Investment and Wealth Management
Robo-advisors are digital platforms that provide automated and algorithm-driven financial planning services with little to no human supervision. The concept of robo-advisors started during the financial crisis of 2008, when small investors had cash surplus as they pulled money out of equities and interest rates touched zero. Betterment, the leading robo-advisory firm, seized this opportunity by encouraging investors to invest in algorithm-driven portfolios for getting steady returns. Since then, robo-advisory became the buzzword of the wealth management industry and many traditional players have now launched robo-advisors as part of their solution portfolio. In spite of the increased adoption, robo-advisory is yet to match up to the hype around its origin, and robo-advised assets are a drop in the ocean at $1.4 Trillion in Jan 2020 in comparison to the size of the investible assets at $22 Trillion and overall $9 Trillion cash sitting on the sidelines.

Robo-advisors are designed to understand investor needs, propose the investment and allocation strategy, implement the selected allocations, monitor results, and perform the portfolio rebalancing as per the strategy. Robo-advisors offer easy account setup, robust goal planning, account services, portfolio management, security features, enhanced customer service, and comprehensive education. In addition, services such as tax-loss harvesting and retirement planning, traditionally offered only by large wealth managers, are often packaged into the robo-advisory offering. Robo-advisors provide efficiencies in addressing a wider range of investors including underpenetrated mass affluent and small investor segments of wealth management, and differentiate through intuitive investing experience with fully digital and online processes. The challenge with robo-advisory lies partly in the design of the platforms, which limit personalization for self-driven investors while access to skilled wealth advisors is often a premium solution. Robo-advice is yet untested in volatile markets and their performance during deep disruption akin to the COVID-19 situation will be closely watched.

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### Pros

**Addressing large underserved** market with low fees and no minimum account balance requirement making it affordable for Millennials and emerging Gen workers

**Simplicity and transparency** through unbiased offerings, and providing a detailed level of reporting to conform to industry wide rules and regulations

**Convenience and accessibility** through digital application and interacting tools, with real time dashboards and alerts to the customer to take required actions

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### Cons

**Lack Personalization** as financial advice providers, but may look into further enhancing the user experience through advanced robotics concepts like NLP and deep learning to bring in more personalization in their interaction and operations

**Keeping the algorithm up-to-date** with changing environment, need for more robust modelling along with effective ways of making decision engine upgrades with quick turnaround time.

**Cannot handhold investors during downturns** as can the traditional model with human intervention, robo-advisors as of now have been more effective under relatively stable or bullish market conditions
Robo-advisors are trying to capture various segments through different business models and customized solutions for investors and incumbent asset and wealth management firms that leverage these robo-advisory platforms to build their digital advice capabilities. From being standalone robo advisors, many firms have expanded through integration with other financial institutions, adding more products like Retirement and CDs, and struck partnerships with RIAs (Registered Investment advisors) for providing investment advice.
1.2 Persona Mapping

Based on the personal assets of an individual, customers of the wealth management industry are divided into 4 segments: Retail/Mass affluent (Assets: <$250,000), Affluent (Assets: $250,000 - $1M), HNI (Assets: $1-100M) and UHNI (Assets: >$100M). Per 2018 statistics, 34% of global personal wealth belonged to Retail/mass affluent, 16% belonged to affluent customers, 38% to HNIs and 12% to UHNIs.

The persona mapping for each customer segment based on their needs and suitable robo-advisory model is shown below:

<table>
<thead>
<tr>
<th>Persona</th>
<th>Young Investor</th>
<th>Affluent Investor</th>
<th>HNI &amp; UNHI Investors</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Features</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Assets/customer:</td>
<td>&lt;$250,000</td>
<td>$250,000 - $1M</td>
<td>HNI: $1-100 M; UHNI: &gt;$100M</td>
</tr>
<tr>
<td>May not have required financial knowledge of making investing decisions</td>
<td>Can afford professional financial advice</td>
<td>Affordability is not an issue for them</td>
<td></td>
</tr>
<tr>
<td>Limited account balance and cannot afford the professional financial advice</td>
<td>Have mix of basic &amp; complex needs, looking for newer ways of investing</td>
<td>Have very complex needs: have to manage multiple assets, constant change in portfolio, frequent rebalancing</td>
<td></td>
</tr>
<tr>
<td>Have a simple portfolio and able to manage their portfolio online with limited/no human assistance</td>
<td>Will need human involvement for complex decisions but satisfied with technological support for basic needs</td>
<td>To fulfil their needs, wealth managers need robust models and technological support to provide recommendations</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Suitable Robo Model</th>
<th>Standalone Robo Advisor</th>
<th>Standalone Robo Advisor</th>
<th>Robo for Advisor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Segregated Robo Advisor</td>
<td>Fully Integrated Robo Advisor</td>
<td>Segregated Robo Advisor</td>
<td>Fully Integrated Robo Advisor</td>
</tr>
</tbody>
</table>

| Robo Advisory Adoption | | |
|------------------------|-------------------|
| On an average, for a wealth manager, retail and affluent segments hold 17% of the AUM but generate 27% of the revenues. They have a higher revenue per unit asset as compared to the HNI/UHNI but at the same time, revenue per customer is much less. Hence, this segment is neglected with no dedicated business unit or helpdesk serving it. As the robo-advisory model becomes more sophisticated, it will be able to serve the needs of this retail and affluent segment, and can increase revenue per customer with better control over operational costs. Hence, the scope of adoption of robo-advisors for retail and affluent segments is expected to be much higher as compared to HNI and UHNI. |

Fig: Different Robo-advisory business models
1.3 Regulations governing Robo-Advisor

Regulators around the world have suggested that the registration requirements for investment selection, investment recommendations, and asset allocation are technology-neutral. This means that the registration, know your customer (KYC), and information requirements of traditional wealth managers will apply to digital / robo-advisors. Therefore, robo-advisors must register with the Securities and Exchange Commission of a given country to conduct business and are subject to similar securities laws and regulations as traditional broker-dealers.

So far, there is no specific regulatory framework related to robo-advisory except to the Joint Committee Discussion Paper on Automation in financial advice of ESMA, EBA, and EIOPA. However, there are different regulations that are not directly related to robo-advisory that can be entirely or partially applicable. Some of the regulations from leading markets for robo-advisory are covered below –

• On June 5, 2019, the US Securities and Exchange Commission (SEC) adopted new regulation “Regulations Best Interest” that imposes principles-based standards on broker-dealers, and requires a broker-dealer to act in its retail customer’s best interest when making such recommendations. To meet this “best interest” standard, broker-dealers must satisfy a number of requirements and specific obligations related to disclosure, standard of care, conflicts of interest, and compliance.

• The SEC, through the Office of Compliance Inspections and Examinations (OCIE), issued its annual Examination Priorities for 2019, along with five Risk Alerts for consideration and action over the course of the year. The annual Examination Priorities publication highlights many “perennial risk areas” including data security, integrity, compliance, and transparency. This serves as a useful guide for newer investment management firms, as well as those that have never been examined by the commission.

• As per the rules defined by MiFID and MiFID II, two main issues to be considered in the digital advisory services is how to comply with Suitability and Appropriateness, and how to deal with Privacy rules. Robo-Advisors should implement best practices to control and monitor their platforms, like the provisions recommended for algorithmic trading in the Regulatory and Implementing Standards related to MiFID II.

• From a regulatory perspective, cybersecurity continues to be a key focus area, both in the United States and around the world. The Office of the Comptroller of the Currency (OCC) identified cybersecurity and operational resiliency as a priority in its 2020 bank supervision programs, with particular emphasis on threat vulnerability and detection, access controls and data management, and managing third-party connections.

Robo-advisors should continue evolving their approach to keep up with the myriad rules and regulations that they are facing, to take advantage of the untapped opportunity in wealth, asset management and retirement markets.
1.4 Challenges faced by Robo-Advisors

**The robo-advisory is still far from mainstream**

In 2016, robo-advisor assets under management was forecasted to reach $2.2 trillion worldwide by 2020 and $4.1 trillion by 2022. But currently, as of 2020, AUM for robo-advisory is around $1.4 trillion with only a select few standalone robo-advisors like Betterment and Wealthfront gaining scale. Unlike Uber in personal transportation and Robinhood, closer home in online brokerage, robo-advice has not lived up to the visionary outlook to make advice accessible to all and revolutionize personal investing.

Even as passive investing is becoming popular (there is over $6.3 trillion invested in global ETF/ETPs at the end of December 31, 2019 up from around $3.0 trillion at the end of 2015), AUM for robo-advisors has not followed the same growth pattern, though most robo-generated portfolios leverage ETFs.

Robo-advisors will need advanced technologies to improve their algorithms, drive more personalization in their offerings for millennials/Gen Z investors. They need to involve human advisory at higher portfolio thresholds and expand distribution through Robo-for-advisor solutions. In addition, Robo-advisors can cross-sell and upsell other products like retirement and CDs, and differentiate based on the customer’s risk appetite and investment preferences.

**Standalone Robo-Advisors Are Struggling To Break Even**

Per experts, robo-advisors should manage between $11.3 billion and $21.5 billion to break even. In Europe, the breakeven AUM falls to $3.5 billion to $5.3 billion, based on a higher fee level of 0.45%. The main reasons robo-advisors struggle to break even are the low service fees, low average portfolio size, and high marketing costs required to acquire customers. For some customers, the revenue can be as low as $100 per year, whereas customer acquisition costs (CAC) for most robo-advisors are from $300 to $1,000 per client.

As income and responsibilities increase, financial planning gets complex and requires constant intervention that can be provided by a human financial advisor only. The early adopters of robo-advisors tend to move to traditional advisory with an increase in their wealth. There is a need for standalone robo-advisors to tie up with incumbents and specialized fintechs to fulfill the needs of this migratory segment as they move to the higher end of the mass affluent or enter the affluent segment.

**Getting tested during uncertain and highly volatile bearish market**

COVID-19 has wreaked havoc on investor portfolios. Robo-portfolios are no exception, given their dependence on ETFs, which have seen a sharp price correction. Ensuing market conditions will test investment and business models of robo-advisors as this segment will be facing its first economic downturn.

The market reaction is different for different firms. For Wealthfront, new investment account signups were “through the roof” during the market volatility while Betterment saw more “dip buying,” but overall, Betterment saw more inflows than outflows, and most inbound calls were about tax-loss harvesting and how to do more of it. Charles Schwab’s Intelligent Portfolios captured more of the market’s year-to-date downside than upside, mainly attributed to Schwab’s higher-than-average exposure to international equities, small exposure to high-yield and international fixed income, and high cash allocation.

Robo-advisory firms, by design, have advantages in the crisis due to a focus on goal-based investing, which helps align the investment risk reward based on the risk appetite and time horizon of the investors. However, there are several aspects where robo-advice can improve in being responsive during such large market disruptions -

- Leading robo-advisory platforms need to show that their solutions can reliably manage downside risk and adjust investment locations accordingly, per the investor's goals and objectives, while taking into consideration long-term investing & short-term economic reactions.
- Integrated tools for chat functionality or video conference to connect with a team of human advisors for clarifications on robo-advised portfolios and market-related adjustments needed.
- Monetize technology platforms to drive higher revenues through licensing and white-label services and life-planning functionalities to prepare investors for adverse market scenarios. For example, investors can take advantage of scenario planning tools that model impact to investment goals and provide a view on financial measures to help survive a job loss/income contraction during the crisis.
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Perspective: Future Scope of Robo-Advisory

2.1 Hybrid Robo-Advisors

Hybrid models combining the best of both worlds (digital and traditional) are seen as the future of investing with digital solutions for investment experience, digital-led advisor connects, and robo-models for goal-based investments with added options of human advisor interactions.

Some of the advantages of the hybrid model are as follows:

- Access to a broader client pool, market segments and new revenue streams through digital first, real-time, low-cost access to advice
- Focus on understanding the more complex financial planning needs of the customer while the core investment portfolio and other middle and back-office processes can be addressed by the robo-advisory solutions.
- Integrate human advisor insights and inputs into the investment process to assist with portfolio rebalancing decisions.
- Pricing for the digital advisory could be modularized for value-added services like tax loss harvesting, new investment products, and portfolio review by registered advisors.
2.2 Role of technology across various touchpoints in enhancement of robo-advisory

The below figure shows the various touchpoints of robo-advisory across the wealth management value chain with future potential for technological improvement.

With the advancement of technology in areas such as advanced analytics, artificial intelligence (machine learning) and natural language processing, the effectiveness of robo-advisory is set to increase. This will enable robo-advisors to have higher impact across the value chain further strengthening the value proposition.

<table>
<thead>
<tr>
<th>Division</th>
<th>Category</th>
<th>Tasks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front Office</td>
<td>Marketing &amp; client acquisition</td>
<td>Strategy development, Lead generation, prospecting, referrals, Measure results</td>
</tr>
<tr>
<td></td>
<td>Client Onboarding &amp; administration</td>
<td>Account Opening/ Closing/ Maintenance, Client Due Diligence/ KYC, Risk Profiling, Customer management/ Client Relations</td>
</tr>
<tr>
<td>Middle Office</td>
<td>Investment Planning</td>
<td>Goal Setting, Education, Financial Planning, Tax Planning</td>
</tr>
<tr>
<td></td>
<td>Research, Analytics and Allocation</td>
<td>Investment Research, Pre-Trade Analytics, Allocation, Portfolio Monitoring and Alerts</td>
</tr>
<tr>
<td></td>
<td>Portfolio Management</td>
<td>Portfolio Construction, Cash Flow Assessment, Rebalancing</td>
</tr>
<tr>
<td></td>
<td>Risk &amp; reporting</td>
<td>Performance and Trade Reporting, Ad-hoc and client self-service reporting, Risk Monitoring and Reporting</td>
</tr>
<tr>
<td></td>
<td>Transactions/ trade execution</td>
<td>Pre-trade compliance, Trade routing and processing, Trade matching and settlement, Reconciliation</td>
</tr>
<tr>
<td>Back Office</td>
<td>Accounting</td>
<td>Trade and Portfolio Accounting, Commission and fee allocation, Billing</td>
</tr>
<tr>
<td></td>
<td>Legal &amp; Compliance</td>
<td>Regulatory Monitoring, Business Audits, Data Security</td>
</tr>
<tr>
<td></td>
<td>Data management</td>
<td>Data acquisition &amp; provisioning, Data warehousing &amp; BI, Analytics and visualization</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Current State</th>
<th>No impact</th>
<th>Low impact</th>
<th>Medium Impact</th>
<th>High Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Future State</td>
<td>Low Impact</td>
<td>Medium Impact</td>
<td>High Impact</td>
<td>Very High Impact</td>
</tr>
</tbody>
</table>
Marketing and Client Acquisition

The cost of acquisition for mass affluent customers is a big challenge for robo-advisory firms. New-age marketing tools such as content marketing can be used to create marketing material in different formats like videos, case studies, articles, and podcasts. By leveraging social media analytics to understand customer preferences, the suitable format can be used to reach out to the customer. Website and clickstream analytics will be helpful to drive more conversions and ensure the effectiveness of each marketing program. Further, programmatic marketing solutions can be used to optimize the marketing spend and drive cost-effective acquisitions.

Client onboarding and administration:

- **Account Opening:** The account opening can be fully digitized in the future through video conferencing, digital signatures, biometric authentication, and online ID verification. It can reduce the time taken to open a new account to a few minutes and lead to significant cost-savings.
- **KYC/Due Diligence and Risk Profiling:** In KYC information, additional data points like expense profile, behavioral data, investment history, and credit history can be sourced from external partners. Based on the gathered information, customer’s investment experience, liquidity needs, and risk appetite can be understood, and a robo-advisor can leverage analytical models to generate risk alerts and overall investment guidance for the profile. This can be available from Day One of onboarding, thereby improving customer satisfaction.
- **Customer Management/Client Relations:** NLP and sentiment analysis can be leveraged to analyze investor queries during different market conditions to make profile updates, enabling an empathetic approach for robo-advisors.

Investment Planning:

- **Goal Setting:** Robo-advisor can proactively make portfolio suggestions based on market trends and peer strategies among similar investment personas. The robo-advisors can also be used to cross-sell products like credit extension (considering credit score) if there is a mismatch between the goals and financial status of the customer, and provide a cost-benefit analysis for better decision making.
- **Education:** Robo-advisory can drive investor education with gamification and online learning modules. This will ultimately help in deeper insights, enhancing the portfolio management, relationship management, cross-selling, sales, and new product development.
- **Investment Planning:** Robo-advisors can use big data to create an optimal roadmap for achieving the goals of the investor. Big data analytics can be leveraged to model redemption needs linked to life events, improve personalization through 360-degree customer views, and identify appropriate investment products to meet financial goals.
- **Tax planning:** Tools to optimize investment returns through effective tax planning and tax loss harvesting are integral to wealth and investment management. Robo-advisors use tax loss harvesting algorithms to strategically balance the capital gains with capital losses to maximize tax savings by complying with the laws. Robo-advisors can build stronger automation to help with optimized portfolio strategies for tax reduction.
Research, Analytics, and Allocation:

- **Research and Analytics**: Data mining and NLP can be used for investment research and making portfolio changes to drive better returns. The NLP engine can do multiple weeks' worth of forensic accounting, analyzing corporate profits, valuations, and current stock prices in hours to deliver investment signals to support active-investing strategies akin to that of large wealth managers. Data mining can also be helpful in exploring alternative investment options and understanding international markets, overcoming the home country bias. Identifying right growth opportunities in emerging markets can also lead to much better returns.

- **Allocation**: The process of allocation is automated by most robo-advisory companies, taking away the risk of irrational decision-making by the customer during market disruptions. Based on the customer’s risk profile and return expectation, the selection of suitable asset class is done. The algorithm should be able to identify the correlation among different asset classes to minimize the market risks using regression analysis and maximizing diversification benefits.

Portfolio Management:

- **Portfolio Construction**: Robo-advisory models can be implemented for new investment products such as retirement and real-estate investing (which are currently not mainstream among robo-advisors). Robo-advisor platforms can be further enhanced for advice on non-investment financial products like mortgages.

- **Portfolio Monitoring and Alerts**: Robo-advisors can adopt emerging technologies such as hybrid neuro-fuzzy systems including Adaptive NFIS, Gaussian RBF, and neural based Q-learning for understanding the dynamic non-linear nature of financial markets and the unstructured nature of the investment decision-making process in several asset classes. They can create alerts to change the portfolio in advance to counter the potential downside.

- **Rebalancing**: Rebalancing is counterintuitive to humans as they have the tendency to increase investment in over-performing assets. Robo-advisors automatically rebalance the portfolio if some assets are over- or underperforming, ensuring long-term gains. However, extreme market fluctuations can trigger inappropriate portfolio rebalancing. Using self-learning algorithms and adaptive models, robo-advisors can continuously improve their algorithms to intelligently redistribute the profits and tax-savings to maximize the returns for the customer.

Risk & Reporting:

- **Risk & Reporting**: Big data in combination with analytics helps in portfolio monitoring and risk scoring, with automated or push-based actions for portfolio changes and decisions.

Accounting:

- **Accounting**: RPA is used to run queries, perform calculations and data validation checks to support different components of the tax assessment and filing process. Fund expense processes can also leverage RPA technology to run validation checks, process payments based on pre-defined criteria and budget forecasts. The adoption of new technologies in accounting is low but can increase in the future to augment the human workforce.

Transactions/Trade Execution:

- **Transactions/Trade Execution**: Pre-trade Compliance: Robo-advisor algorithms can automatically factor in the trade compliance needs, by integrating with a compliance engine that continuously tracks the regulatory changes and compliance requirements at every level.
• Trade operation: Complex AI systems are used to make extremely fast trading decisions. Millions of transactions are to be done per day by robo-advisors incorporating high-frequency trading (HFT) algorithms. The adoption of machine learning and deep learning algorithms for calibrating trading decisions in real time will increase in the coming years if robo-advisors are able to scale up their customer base.

Legal & Compliance:

• The role of technology for legal and compliance purposes is currently in its nascent stage. Regulatory technology (RegTech) solutions will become a ‘must-have’ for robo-advisory firms to comply with regulatory pressure and real-time monitoring. RPA can be used to automatically generate disclosure reports for market regulators. Machine learning can be used to improve flagging accuracy by creating numerous specific use-cases to understand the trading patterns and capital inflow/outflow of the customer.

• With further evolvement of RegTech in the asset and wealth management industry, the compliance team can be better utilized to deal only with strategic overrides and managing exceptions.

Data management:

• The huge amounts of qualitative and quantitative data extracted from different sources in the middle office, trading and accounting, and back office operations is saved in the data warehouses. The different aspects of data management can be used for building algorithms to effectively run constituent processes in the wealth management value chain. With the help of ETL tools, insight generation and effectiveness of robo-advisors can be improved significantly. Data visualization tools can be helpful in creating engaging dashboards and trade reports for the customers and financial advisors, enabling effective, strategic decision-making.
By embracing technological advancements, wealth management firms in the human to robo-advisory continuum will be looking to expand their services by providing enhanced customer experience, personalization, and better advisory outcomes.

### 2.3 Way Forward

Traditional wealth managers and standalone robo-advisors can expand market share by taking the hybrid approach while existing hybrid players can expand at both ends of the spectrum:

#### Ideal customer base for each type of player on the basis of typical offerings

- **Private banking wealth managers**: HNI / UHNI
- **Hybrid Players**: Affluent
- **Standalone robo-advisors**: Mass affluent / Retail
- **Client’s expectation/affordability of personal advice**: Mobile to affulent
- **Complexity of advisory needs**: Basic to complex

#### Expansion of customer base led by technological expansion

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- **Standalone robo-advisors**: Mass affluent / Retail
- **Client’s expectation/affordability of personal advice**: Mobile to affulent
- **Complexity of advisory needs**: Basic to complex

### Standalone players

With improved robo-advisory algorithms and better personalization, robo-advisors can evolve to address the needs of the affluent segment. Smoother customer onboarding, improved reporting, and premium offerings incorporating human advisory connects and chatbots can drive higher adoption.

### Hybrid players

Existing hybrid advisory players can leverage technology for digitization of various middle office and back-end operations and leverage financial advisor networks to address client needs. Financial advisors can be judiciously used based on the segment they are dealing with. More advanced robo-advice models for direct stock investments, community/peer-based investment models, and alternative investment options like real estate and commodity investments can be added to increase the value delivery at the higher end of the market.

Traditional players need to digitize and modernize extensively to offer Robo / Digital advice driven models. Integration with existing Fintechs can be used to accelerate the go to market. New Digital advisory offerings will need to be incubated through innovation centers and partnerships with large technology firms to ensure that client and user experience delivered are best-in-class and in line with industry-leading digital offerings. The advantage for the incumbents will be a potential captive market for digital advice with the ability to attract underpenetrated affluent and mass affluent segments. As millennials and Gen Z customers build assets, the opportunity will be to help them with a larger suite of financial needs including retirement, mortgages, and dedicated wealth advisory. Standalone players will need to be agile to maximize revenue opportunities by building up distribution and scaling up their technology platforms.
More than a decade since their inception, robo-advisors are at an inflection point. Despite the buzz and early success, mainstream adoption has been elusive. They are now facing the first major test for their goal-based, algorithm-driven investment model; the COVID-19 crisis has brought in an unprecedented level of uncertainty for investors across all categories. The ultimate impact on investor wealth and how well robo-advisors can wade through this crisis remains to be seen.

Incumbents have adopted robo-advisory models to launch their own offerings quickly gaining scale by leveraging their existing customer base. The future may well be all digital but traditional advice will continue to hold sway at the top end of the market. Traditional wealth managers and independent advisors will increasingly use robo-for-advice models to serve the high end of the market. The standalone robo-advisors are at a juncture where they have to decide if they want to expand by innovating on product offerings and building market partnerships or get sold out to larger firms to help bridge the gaps in the market.

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https://www.statista.com/outlook/337/100/robo-advisors/worldwide

Source:
ETFGI for ETF industry data
About authors

Pradeep Agarwal
_Wipro Insights Team, Securities and Capital Markets_
Pradeep is the Wipro Insights lead for the Securities and Capital Markets practice at Wipro. He has over 12 years of experience in the Financial Services sector having worked with EY, HSBC Investment Banking and Guggenheim Transparent Value. Pradeep is skilled at performing sector research, forming go-to-market strategies, capital advisory, M&A origination and execution. You can reach him at _pradeep.agarwal2@wipro.com_

Shubham Kapoor
_Solution Design Consultant, Securities and Capital Markets_
Shubham works on developing relevant solutions/response designs for technology proposals in the Capital Markets industry. He is also tasked with carrying out research activities for ongoing deals and devising strategy plans for the vertical. He has completed his management degree from IIM Udaipur with a specialization in the area of strategy and finance, and is well versed in matters related to the Capital Markets industry. He can be reached at _shubham.kapoor@wipro.com_

Sakshi Agarwal
_Solution Design Consultant, Securities and Capital Markets_
Sakshi works as a consultant for developing IT solutions/response designs for customer proposals in the Capital Markets industry. She is also responsible for bid management and devising strategy for lead generation. Sakshi holds a management degree from IIM Udaipur with a specialization in finance and strategy and has proven expertise in the Capital Markets industry. She is CFA level 1 certified by CFA Institute. She can be reached at _sakshi.agarwal9@wipro.com_

Swarnabha Seth
_Solution Design Lead, Securities and Capital Markets_
Swarnabha is a solution design lead in the Security and Capital markets division at Wipro. He has more than 14 years of experience across solution development, consulting, and sales strategy. He also has a deep technology understanding of the digital space and has been instrumental in shaping large deals for banking, insurance and financial services domains. You can reach him at _swarnabha.seth@wipro.com_
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