

Adivya Arya

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SKILLS

- **Languages:** Python, R, SQL, MySQL, C++, Java, C
- **Frameworks:** HTML and CSS, TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn
- **Tools/Platforms:** Power BI, Tableau, MongoDB, Excel (Advanced), Alpha Vantage API,
- **Relevant Skills:** Natural Language Processing, Probability and Statistics, Data Analytics and Data Mining, Big Data

INTERNSHIP

DSP Mutual Fund

May 24 – Oct 24

- **Research Analyst Trainee**
 - Conducted ETF and equity research, analyzing efficiency metrics like **tracking error**, **expense ratios**, and **liquidity**.
 - Evaluated fund performance using CAGR, ROE, and real returns, showcasing **India's 10.5% CAGR in equities** and 4% real returns over three decades, outperforming global peers.
 - Identified sector opportunities, highlighting India's **pharmaceutical leadership** (Sun Pharmaceuticals: 20.7% ROE, 16% EPS CAGR).
 - Monitored macroeconomic trends, noting India's 7.1% CAGR in household consumption over 30 years, boosting equity performance.

SUMMER TRAINING

Linux Socials (Edtech Company)

June 24 – July 24

- **DSA Training with C++ and Java**
 - **Data Structures:** Mastered core data structures such as arrays, linked lists, stacks, queues, hashmaps, heaps, and trees.
 - **Algorithms:** Acquired in-depth understanding of algorithms, including sorting (merge sort, quick sort, heap sort), searching (binary search), and dynamic programming.
 - **Recursion and Backtracking:** Learned problem-solving techniques using recursion and backtracking to handle complex computational challenges effectively.
- Leetcode Profile :** <https://leetcode.com/u/adityaarya025/>

PROJECTS

- **Credit Card Fraud Detection:** Python, TensorFlow, Pandas, NumPy, Matplotlib September 24
Designed and developed an Artificial Neural Network (ANN) using TensorFlow with techniques like data normalization and regularization.
Conducted exploratory data analysis (EDA) and correlation analysis to identify key features.
Trained a large dataset of credit card transactions, achieving 98% accuracy with low variance between training and test performance.
- **Customer Churn Analysis:** PowerBI, DBMS, Machine Learning, Excel December 24
Facilitated a churn prediction model using Random Forest Classifier and PowerBI for visualization.
Designed an interactive Power BI dashboard to track churn rate, total customers, and acquisitions.
Implemented Random Forest Classifier, achieving 97% accuracy, 94% precision, and 92% recall for predicting high-risk customers.
- **Black Friday Sales Data Analysis:** October 24
Analyzed Black Friday sales data to uncover trends in consumer behavior and product popularity.
Utilized Pandas and NumPy for data cleaning and manipulation, ensuring accurate analysis.
Visualized findings using Matplotlib and Seaborn to inform future marketing and sales strategies.

CERTIFICATES

- Introduction to MongoDB -by MongoDB (Data modeling, MongoDB Atlas management) Jun 24-July 24
- Prompt Engineering for ChatGPT - by Coursera Jan 24- Feb 24
- Cloud Computing -by NPTEL Aug 24- Oct 24

ACHIEVEMENTS

- **NISM-Series-V-A: Mutual Fund Distributor Certification:** December 24
Achieved NISM-Series-V-A: Mutual Fund Distributor Certification with a score of 70, demonstrating compliance with SEBI's regulatory standards for professionals in the securities market
- **Hacker 5 stars in SQL** January 24
Achieved 5 stars in solving SQL problems on hackerrank.

EDUCATION

- **Lovely Professional University** Punjab, India
Bachelor of Technology - Computer Science and Engineering; CGPA: 7.90 Since August 2022
- **IGM Senior Secondary School** Mansarovar, Jaipur
Intermediate; Percentage: 79% April 2021 - March 2022
- **D S Science Academy** Gangapur City
Matriculation; Percentage: 94.85% April 2019 - March 2020

