AKSHAY PARATE

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EDUCATION

Stevens Institute of Technology **August 2023 - December 2024**
Master's, Data Science *GPA: 3.55*

- Relevant coursework: Applied Machine Learning, Data Analysis using Statistical Methods, Natural Language Processing.

IIIT Bangalore **December 2021 - August 2022**
Certification, Advanced Programme in Blockchain Technology *GPA: 3.6*

- Certificate link: *Link to certificate*

K.J. Somaiya College of Engineering **May 2018 - May 2021**
Bachelor's, Electronics and Telecommunication Engineering *GPA: 3*

SKILLS

- **Programming Languages/Frameworks:** Python, R, Java, JavaScript, SQL, AngularJs, Flask, NodeJs.
- **Machine Learning libraries:** Pandas, NumPy, Matplotlib, Seaborn, PyTorch, TensorFlow, Keras, NLTK.
- **Machine Learning Algorithms:** Linear Regression, Logistic Regression, Decision Trees, Random Forest, K-means clustering.
- **Statistical Analysis:** Hypothesis Testing, ANOVA, Regression Analysis, Time Series Analysis, Data Integration and Analytics, SAP.
- **Neural Network:** Recurrent Neural Network, LSTM, Attention, Transformer, Convolutional Neural Networks, LLM.
- **Visualization Tools:** Power BI, Tableau, Python, Advanced Excel.
- **Cloud Platforms/DevOps:** AWS, Alibaba, Git, Jenkins, Kubernetes, Postman.
- **Finance:** Financial Risk Management, Fixed Income, Bonds, Hedge Funds, Derivatives.

CERTIFICATIONS

- Introduction and Intermediate R for Finance, Data camp
- Java Full Stack Development Course, Coders Technology, Mumbai.

PROFESSIONAL EXPERIENCE

LTIMindtree **Riyadh Saudi Arabia**
Senior Consultant *June 2021 - August 2023*

- Implemented DevOps (CI/CD) automation to enhance the project's ability to deliver applications and services at high velocity.
- Utilized Python for data analysis on production server traffic, contributing to enhanced server responsiveness by 20%.
- Developed a machine learning algorithm for a decision system that dynamically scaled servers based on real-time loads.
- Led the development and implementation of a Python script for real-time server load monitoring, enabling dynamic scaling and optimizing resource utilization by 15%.
- Played a vital role in conducting business analysis for the client, contributing to strategic decision-making processes.

K.J. Somaiya College of Engineering **Mumbai, Maharashtra, India**
Python IOT Intern *September 2019 - January 2020*

- Developed Python automation scripts for smart irrigation, leading to increased efficiency by 12% and reduced labor costs.

PROJECTS & OUTSIDE EXPERIENCE

Strategic-Fund: Comprehensive Analysis and Portfolio Simulation using Python and Power BI **New Jersey, USA**

- Extracted and cleaned a comprehensive dataset of 13,000 mutual funds using Python, ensuring high data quality and consistency.
- Computed mean returns and standard deviation for each fund, and generated 100,000 potential portfolios using Monte Carlo simulation on excel using pivot tables and queries.
- Optimized portfolio selection by maximizing the Sharpe ratio, achieving a portfolio with a Sharpe ratio of 14.
- Developed an interactive Power BI dashboard to visualize portfolio performance, composition, and key metrics.
- *Link to project*

AI-Trader: Real Time Automated Portfolio Building and Algorithmic Trading **New Jersey, USA**

- Led the end-to-end development of an investment tracking platform, encompassing crypto, stock markets, and mutual funds.
- Utilized MySQL for database management, ensuring efficient and secure data storage and retrieval.
- Implemented BERT pre-trained model with a classification layer to train on existing financial news for sentiment analysis, achieving 90% accuracy.
- Utilized Google News API to mine the latest financial data and generated daily reports in Power BI with calculated sentiment.
- Implemented the complex financial Piotroski strategy model for stock fundamentals financial analysis using balance sheets, income statements, and cash flow statements
- *Link to project*