

AAYUSH KAMATH

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in [LinkedIn](#) [GitHub](#) [Portfolio](#)

EDUCATION

- **Columbia University, New York, NY** Jan 2022 - May 2023
 - *M.S. in Computer Science*
- **Sardar Patel Institute of Technology, Mumbai, India** Aug 2017 - May 2021
 - *B.Tech. in Information Technology*

SKILLS

Programming Languages: Python, SQL, R, Java, C, JavaScript
Web Dev Frameworks: HTML, CSS, Bootstrap, MySQL, PostgreSQL, React, Django, Nodejs.
Python Libraries: Pandas, TensorFlow, PyTorch, Scikit Learn, Keras, Matplotlib, NumPy, OpenCV.
Developer Tools: Git, AWS, Google Colab, VS Code, R Studio, Tableau, MS Excel.
Other: Computer Vision, Natural Language Processing, Communication Skills.

WORK EXPERIENCE

- **ICPC Foundation | Software Engineer Intern** Aug 2023 - Present
 - Engaged in enhancing data structures and algorithms proficiency through competitive coding problems and contests on Codeforces and Leetcode.
- **Aptitude (Columbia Business School) | Software Engineer Intern** May 2022 - Aug 2022
 - Streamlined verification workflow for tenant background checks by incorporating **Plaid API with Python and Django**, facilitating secure and rapid validation of prospective tenants' banking credentials, **significantly bypassing manual processing time of few days.**
 - Enhanced login efficiency by developing a User Authentication module using Firebase Authentication API, achieving a **40% improvement in account access speed.**
 - Initiated the development of **blockchain smart contracts** for tenant rental applications using the Solidity framework, incorporating approval checkpoints for token generation and process automation.

PROJECTS

- **Investment Portfolio Management using Machine Learning | Github Repo** Feb 2023 – May 2023
 - Crafted an **interactive dashboard** using React for front-end data visualization, with Django REST for backend API integration, facilitating machine learning and deep learning models' insights.
 - Deployed LSTM and regression models for forecasting S&P 500 stock prices by training on a **decade's worth of large-scale time series data.**
 - Strategized stock management for long-term investment portfolios by employing Mean Variance Optimization, which facilitated the development of sector-specific portfolios. This approach minimized risk while achieving a **20% annual return on investment.**
- **Coffee Factory | Web App for Coffee shops | Github Repo** Feb 2022 - May 2022
 - Established a comprehensive **review aggregator ecosystem** comprising of hundreds of coffee shops with features such as User Profile, User Reviews, Search, Filter by Categories and Shop details.
 - Engineered a **scalable web application with React**, hosted on AWS Amplify, ensuring efficient data handling with a back-end supported by S3 Bucket and DynamoDB for real-time analytics.
 - Integrated Services/APIs: AWS (Cognito, Amplify, Dynamo DB, S3 Bucket, etc.), Google Reviews API, Google Maps API, React.
- **Dining Concierge | Restaurant Recommendation Chatbot | Github Repo** Jan 2022 - Feb 2022
 - Engineered a comprehensive **AWS-based full stack web application** to recommend multiple restaurants tailored to user preferences for cuisine, time, and location.
 - Designed a **conversational Amazon Lex bot** for dynamic restaurant recommendations, integrating user intents.
 - Leveraged a suite of AWS services including Amazon Lex, Elasticsearch, DynamoDB, SQS, SNS, and AWS Lambda, along with Yelp API, to build a robust and responsive solution.

CERTIFICATIONS

- **IBM Data Science Specialization | Certificate** Apr 2020 - July 2020
 - Pursued and completed a 9-course specialization, encompassing Data Analysis with Python, Machine Learning with Python, Data Visualization with Python, and culminating in an Applied Data Science Capstone Project.