Parth Athale

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EDUCATION

Georgia Institute of Technology — Atlanta, GA
Master of Science in Computational Data Analytics, GPA 4.0 — *Aug 2023 – Dec 2024*
Coursework: Graduate Algorithms, Machine Learning, Database Systems, Data and Visual Analytics

Indian Institute of Technology, Kanpur — Kanpur, India
Bachelor of Science in Mathematics and Scientific Computing, GPA 8.5 — *Aug 2017 – May 2021*
Coursework: Data Structures and Algorithms, Probability and Statistics, Linear Algebra

EXPERIENCE

Goldman Sachs — Bangalore, India
Quantitative Analyst (Asset Management) — *Jun 2021 – May 2023*
- Contributed to the end-to-end development of a full-stack application for a new retail private credit fund.
- Created a database in Snowflake using ETL in Python after calling multiple REST APIs for different data sources.
- Developed the backend API in Kotlin and connected it to the frontend by coding in TypeScript and JavaScript.
- Built a new time series data pipeline for stock indices using REST APIs to boost coverage and speed by 40%.
- Enhanced a widely used Symphony chatbot for interest and FX rates by adding new rates and features in Slang.
- Integrated 20+ endpoints on stock, index and performance data into production through Slang after testing.

Delphlyx — London, UK
Technical Lead (Data and Software Engineering) — *Sep 2020 – Aug 2023*
- Founding employee of a soccer analytics startup, only engineer in a four-member team.
- Designed and executed the revenue stream of the company to sign deals with 20+ soccer clubs and agencies.
- Singlehandedly built the backend for the player analysis website, using a Flask API in Python hosted on GCP.
- Built proprietary big data machine learning models using scikit-learn and PyTorch on more than 500k players.
- Wrote automated scripts to scrape data from external sources using BeautifulSoup to enhance SQL database.
- Populated the website from the API using Laravel and JavaScript, deployed the website in production with SSL.

Deutsche Bank — Mumbai, India
Investment Banking Intern — *Apr 2020 – Jun 2020*
- Optimized corporate bond and RMBS portfolio using MS Excel to increase Return on Equity by 3%.

SKILLS

Languages: Python, Java, C/C++, SQL, JavaScript, Kotlin, PHP, TypeScript, R, Scala
Developer Tools: Git, Docker, Google Cloud Platform, Amazon Web Services, VS Code, PyCharm, IntelliJ
Frameworks and Libraries: pandas, NumPy, Matplotlib, BeautifulSoup, PyTorch, Hadoop, Spark, Flask, React, Databricks, Tensorflow

PROJECTS

FareWise NYC | *Flask, HTML/CSS, Folium, Databricks, Git, XGBoost* — *Aug 2023 – Dec 2023*
- Developed a web application for taxi drivers in NYC to intelligently plan routes and maximize profits.
- Predicted time and fare for taxi rides using ridge regression and XGBoost algorithms on 1.4 million data points.
- Used Seaborn and Folium packages to build customized interactive heatmaps based on area and demand.

Quantifying off-ball movement in the NBA | *Python, PyTorch, scikit-learn* — *Jun 2020 – Oct 2020*
- Built a probabilistic model using spatio-temporal tracking data of 600+ NBA games from 2016.
- Modelled probabilities using Logistic distribution and used gradient boosting to predict field goal percentage.
- Integrated the model into video footage with XY coordinates using PyTorch.
- Poster accepted at UConn Sports Analytics Symposium 2020 and CMU Sports Analytics Conference 2020.

LEADERSHIP AND ACTIVITIES

Graduate Teaching Assistant: Worked in a class of 400+ students for Computing for Data Analysis at Georgia Tech.
Coordinator, English Literary Society IIT Kanpur. Headed a 19-member team and organized events on campus.
Project Lead, Asset Management India Hackathon at Goldman Sachs.
Freelance Writer, for soccer publications like FanSided, Total Football Analysis, 90 Minutes At A Time.