ATHARV PARAB

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TECHNICAL SKILLS

Languages: Python (PyTorch, NumPy, Keras, Scikit-learn, Pandas), C, SQL, Flask, Django, PySpark, Hadoop
Data & Cloud: AWS S3, MongoDB, Azure CosmosDB, Hadoop, MLflow, Salesforce, Docker Compose
Visualization: Tableau, PowerBI, Matplotlib, Seaborn, Plotly

EXPERIENCE

DATA SCIENCE INTERN | COVENANT HOUSE NEW JERSEY   February 2025 – May 2025

Automated services and real-time analytics for youth program data   Python | Salesforce | ETL | Data Engineering

- Deployed Salesforce chatbot to automate FAQs, cutting client response time by **80%** and improving access to resources
- Conducted **A/B testing** comparing virtual vs in-person services, finding **25%** higher engagement and **13%** cost savings in virtual delivery
- Developed **ETL pipelines** for data processing, and real-time analytics of high-volume youth program data

DATA SCIENCE INTERN | COVENANT HOUSE NEW JERSEY   June 2024 – August 2024

Predicted stay durations to improve resource allocation   Python | Scikit-learn | Tableau

- Solved resource allocation challenge applying **predictive models** to predict an ideal **70-day** stay duration, enhancing program efficiency and support for at-risk youth
- Identified stay duration inefficiencies, increasing youth service capacity by **10%** through reduced prolonged stays
- Developed Tableau dashboards to uncover operational inefficiencies, enabling a **12%** improvement in service delivery across **30+** programs

WEB DEVELOPER INTERN | VESIT RENAISSANCE CELL   May 2021 – August 2021

Virtual Labs Platform for K–12 students during COVID-19   HTML | CSS | React.js | Three.js | Firebase | Google Analytics

- Boosted student engagement by 30% through immersive **Three.js** simulations; analyzed session duration, login frequency, and activity completion

PROJECTS

Finge – Investment Discovery Platform (HackNYU 2025)   React | TypeScript | FastAPI | MongoDB

- Built AI investment platform with real-time data and a swipe UI inspired by dating apps to boost engagement
- Implemented scalable backend with **MongoDB** to process financial data, delivering investment recommendations

LLM Tokenizer   Python | PySpark | Hugging Face | BPE

- Built a pipeline using **Byte Pair Encoding** and **Hugging Face Tokenizers** to preprocess Wikipedia articles for LLMs
- Processed **10M+** articles with **PySpark**, visualizing token distribution and vocabulary for **NLP** downstream tasks

PUBLICATIONS

- Co-authoring a white paper with **Covenant House New Jersey** and **NYU faculty** on **"Predicting the Optimum Length of Stay in Transitional Housing"**, addressing gaps in data-driven resource optimization research
- **"Multilingual License Plate Recognition System"** — published in BTH Journal, Volume 23, Issue 4, pp. 260–263

EDUCATION

New York University   September 2023 – May 2025

Master of Science, Computer Engineering   **New York, NY**

- Coursework: Machine Learning, Deep Learning, Data Science for Business, Big Data, Probability & Stochastic Process

University of Mumbai   August 2019 – May 2023

Bachelor of Engineering, Information Technology   **Mumbai,MH**

- Coursework: Software Engineering, Data Structures, Artificial Intelligence, DevOps, Operating Systems

LEADERSHIP & INVOLVEMENT

Programming Commissioner | New York University Graduate Student Council   September 2024 – May 2025

- Led academic, technical, and community-building events, enhancing engagement for **4,600+** graduate students