

Paridhi Talwar

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EDUCATION

SRM University

Bachelor of Technology in Computer Science

Tamil Nadu, India

Jul 2019 - Jun 2023

Selected Coursework: Data Mining and Analytics, Artificial intelligence, Semantic Web, Compiler Design, Biometrics

Boston University

Master of Science in Computer Science

Boston, MA, USA

Sep 2023 - Jan 2025

Selected Coursework: Data Science, Web Mining, Data Visualization, Big Data Analytics, Computational Mathematics

TECHNICAL SKILLS

Programming Languages: C, C++, Python, MATLAB, Java, R, SQL, Latex

Libraries and Tools: GitHub, JIRA, MongoDB, Pivotal Tracker, Scikit-learn, NLTK, Keras, Streamlit, Cypress, Scipy

Technologies and Frameworks: TensorFlow, Google Cloud, AWS, Azure, PySpark, PyTorch, Tableau, PowerBI

DevOps & Deployment: GitHub Actions, Docker, CI/CD, Airflow, Azure Kubernetes Service, Unit Testing (PyTest)

Data Science & Analytics: Machine Learning, Computer Vision, Statistical Modeling, Time-Series Analysis

WORK EXPERIENCE

COMMUNITY DREAMS FOUNDATION

AI Engineer

Boston, MA

May 2025 - June 2025

- Leading architecture for a voice-based FAQ assistant using **Flask**, **Google STT/TTS**, and **LLMs** for 1,000+ users.
- Managing sprint planning, stakeholder syncs, and deliverables as **Engineering Project Manager (EPM)** to drive timely progress and cross-functional alignment.

SYREN CLOUD INC

Data Science Intern

Remote

Jun 2024 - Aug 2024

- Spearheaded multi-horizon forecasting using **ARIMA**, **Prophet**, and **XGBoost**; boosted accuracy from **50%** to **68–72%**.
- Engineered feature pipelines for **300+ SKUs** using lag variables and seasonality; evaluated with **RMSE**, and bias metrics.
- Automated training with **Sklearn**, **StatsForecast**, and **Airflow**; reduced manual iteration and streamlining experimentation.
- Collaborated **cross-functionally** with analytics and operations teams to ensure alignment of predictions with **planning KPIs**, enhancing downstream reporting and reducing supply-demand gaps.

COMPUTACENTER INDIA PRIVATE LIMITED

Associate Technical Analyst Intern

Bangalore, India

Jan 2023 - Jun 2023

- Supported triage and resolution of **100K+** infrastructure logs through a centralized incident management system; automated server monitoring tasks using **PowerShell** and **Hyper-V**, enhancing system responsiveness and reducing manual workloads.

OPTUM GLOBAL SOLUTIONS(INDIA) PRIVATE LIMITED

Software Developer Intern

Bangalore, India

Jun 2022 - Aug 2022

- Built and deployed a **HIPAA-compliant** teleconsultation application using **Flask** and **MongoDB**, improving access to virtual care for **500+ weekly** users and decreasing average wait times.
- Integrated **Google Calendar** and **Maps API** to streamline real-time scheduling and clinic discovery; containerized and deployed on **Azure Kubernetes Service**, improving scalability and reliability.

PUBLICATIONS

- **Talwar, P., Jain, A., & Pinsky, E. (2025). Should You Sleep or Trade Bitcoin? ITISE 2025 (11th International Conference on Time Series and Forecasting)**, Canaria, Spain.

PROJECTS

- **Smart Fridge**, Designed a smart fridge app using **Python**, **React**, **Flask**, **Expo Go** and **MongoDB**, allowing users to track inventory, plan meals with a calendar interface, and utilize **LLM-powered Gemini** chats for recipe suggestions and customization, enhancing meal management by reducing food waste by **10%**. Also **unit-tested backend components** using PyTest for core logic validation. [Github](#)
- **Alcohol Brewing Data Analysis**, Analyzed brewing parameters, quality metrics, and sales trends using **PySpark** and **Spark SQL** on **Google Cloud Platform**, implementing machine learning models to predict quality outcomes and optimize brewing processes. Developed real-time dashboards for stakeholders, enabling data-driven decisions and improving operational efficiency and product consistency across the production cycle.
- **Animal Intrusion Detection System**, Led the development of a real-time detection system using **Mask RCNN** and **OpenCV**, training the model on a diverse animal image dataset to achieve **87%** detection accuracy. Integrated an alert system that reduced human intervention by **30%**, ensuring faster response times to potential intrusions.