Sujeet Ramchandra Madihalli

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LinkedIn | GitHub | Medium | Portfolio Website | ***Eligible for CPT / OPT / STEM OPT***

Education

University of Maryland, College Park — College Park, MD
Master of Science in Data Science | GPA: 4.0/4.0 — *Aug 2025 – May 2027*
- **Relevant Coursework:** Probability & Statistics, Principles of Machine Learning, Algorithms for Data Science, Big Data Systems, Deep Learning (Planned), Natural Language Processing (Planned).
- **Honors:** Member, The Honor Society of Phi Kappa Phi (Top 10% of Graduate Students)

Visvesvaraya Technological University — Belgaum, India
Bachelor of Engineering in Computer Science | CGPA: 3.7/4.0 — *Aug 2017 – June 2021*

Technical Skills

Modeling & Statistics: Hypothesis Testing, A/B Testing, Regression, Classification, EDA, Time-Series Analysis, GenAI.
Languages & Libraries: Python (Pandas, NumPy, Scikit-Learn, SciPy, Statsmodels), Matplotlib, Seaborn, SQL, PyTorch.
Data Engineering: Data Cleaning, Feature Engineering, ETL Automation, Unstructured Data Analysis, Anomaly Detection.
Tools & Cloud: Oracle Cloud (OCI), AWS, Git, Jupyter Notebooks, Docker, Big Data Systems (Spark, Hadoop).

Professional Experience

Oracle — Bangalore, India
Cloud Engineer(Data Scientist) — *Jun 2024 – Aug 2025*
- Conducted **Exploratory Data Analysis (EDA)** on platform logs to identify root causes of downtime, translating technical data into actionable business insights.
- Designed and implemented statistical thresholds for **anomaly detection** across SaaS metrics, improving signal-to-noise ratio in alerting systems.
- Analyzed historical incident data to identify trends and seasonality, enabling data-driven capacity planning and resource allocation.
- Generated automated reports visualizing key performance indicators (KPIs) for stakeholders, driving a 25% increase in operational efficiency.

Subex Ltd — Bangalore, India
Senior Software Engineer (Data Analytics) — *Aug 2021 – May 2024*
- Developed Python/Shell automations for complex operational tasks, reducing manual effort by 70% and accelerating **analytics workflows** for telecom datasets.
- Designed proactive monitoring frameworks for production data streams, improving incident resolution time by 40% through real-time **alerting systems**.
- Led initiatives to optimize troubleshooting workflows, significantly boosting team productivity and operational transparency.
- Deployed an internal portal using **Flask** and Docker to visualize **Business Metrics/KPIs** for capacity planning and predictive usage patterns.

Verzeo — Bangalore, India
Machine Learning Intern — *Jul 2019 – Aug 2019*
- Built a Facial Emotion Recognition model using TensorFlow, focusing on **Model Evaluation** to achieve 92% accuracy on test data for real-time webcam inputs.
- Developed a text summarization tool leveraging **NLP** techniques (Tokenization, NLTK) for efficient information retrieval.

Projects

U.S. Flight Delay Prediction | *Classification, Feature Selection* — Fall 2025
- Developed a classification model to predict flight delays, performing **Exploratory Data Analysis (EDA)** and **Feature Selection** on historical FAA/BTS data.
- Implemented **Hyperparameter Tuning** (GridSearchCV) and **Cross-Validation** to optimize model precision and recall metrics before cloud deployment.

CardioSense: Biometric Time-Series Analysis | *Regression, Statistical Inference* — Fall 2025
- Designed a predictive regression model to estimate resting heart rate based on workout intensity, testing hypotheses on physiological recovery.
- Conducted **Data Cleaning** (Z-Score Outlier Detection) on a hybrid dataset (Apple Watch + Kaggle) to ensure statistical validity of the health metrics.

Autonomous Navigation Agent | *Reinforcement Learning* | Live Demo — Fall 2025
- Designed a Q-learning agent to autonomously navigate a virtual vehicle, optimizing reward functions for **performance optimization** and collision avoidance.

Automated Timetable Generation | *Genetic Algorithms (Capstone)* — Undergrad
- Developed a Genetic Algorithm-based scheduling system with a user-friendly portal, reducing administrative workload by 95% via automated conflict resolution.

Certifications & Leadership

Certifications: OCI Generative AI Professional (2024), OCI AI Associate (2024), ML Specialization (Univ. of Washington), Python (5*), Java (4*), Kubernetes (Udemy).
Leadership: Member, UMD Boxing Team; Data Science Society (Planned); Technical Team Lead (Aura18/19); E-sports Club Organizer.
Conferences: Attendee, AWS Innovate (2025); Attendee, Google Accelerate AI with Cloud Run (2025).