Sujeet Madihalli

Data Science • Machine Learning • AI
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Eligible for U.S. work authorization under CPT (no employer sponsorship required)

Education

University of Maryland, College Park — Master of Science in Data Science — GPA 4.0/4.0 **Aug 2025 – May 2027**
- Relevant Coursework: Probability & Statistics, Principles of Machine Learning, Big Data Systems, Algorithms for Data Science, Deep Learning (planned), NLP(planned).
- Activities: Member, UMD Boxing Team; Data Science Society (planned); Attendee, AWS Innovate; Attendee, Google Accelerate AI with Cloud Run.

KLS Gogte Institute of Technology, Belgaum — B.E. Computer Science — CGPA 3.7/4.0 **July 2017 – August 2021**
- Senior Project: Automated Timetable Generation using Genetic Algorithms (reduced scheduling time by 95%).
- Leadership: Technical Team (Aura18, Aura19), E-sports Club organizer and primary team leader.

Experience

Oracle, Bangalore — Cloud Operations Engineer **Jun 2024 – Aug 2025**
- Applied Python automation to ETL pipelines and reporting systems, reducing downtime by 30% and enabling data-driven efficiency gains of 25%.
- Performed large-scale data monitoring and anomaly detection across SaaS platforms (CRMOD, OTM, WMS) with 100+ customer-facing incidents weekly.
- Collaborated on cloud migration projects, ensuring continuous data availability and service reliability.
- Built scripts for recurring log analysis & incident prediction, cutting manual investigation time by 10 hours/week.

Subex Ltd, Bangalore — Senior Software Engineer **Aug 2021 – May 2024**
- Engineered Python/Shell automations for operational tasks, reducing manual effort by 70% and accelerating analytics workflows.
- Designed proactive monitoring and alerting frameworks to detect anomalies in production data streams, improving resolution time by 40%.
- Led process-improvement initiatives by introducing data-driven troubleshooting workflows, boosting team productivity.
- I gained experience working with large-scale telecom datasets and production-grade data pipelines.

Verzeo, Bangalore — Machine Learning Intern **Jul 2019 – Aug 2019**
- Built a facial emotion recognition model using TensorFlow and Haar Cascade, achieving 92% accuracy.
- Developed a text summarization tool leveraging NLP techniques (NLTK) for information retrieval and compression.

Projects

U.S. Flight Delay Prediction | (Personal Project) **Fall 2025**
- Developed a machine learning classification model to predict the likelihood of U.S. flight delays using historical data from the FAA and Bureau of Transportation Statistics (BTS).
- Engineered features from large-scale data, analyzing patterns in carriers, origin/destination, time of day, and seasonal trends to improve model accuracy.
- Tuned model hyperparameters to achieve high precision and recall, creating a robust tool for airline and passenger planning.

Resting Heart Rate & Workout Intensity Analysis | (Academic Project) **Fall 2025**
- Built a regression model to analyze and predict resting heart rate based on daily workout intensity and caloric expenditure.
- Conducted feature engineering and time-series analysis on fitness data to quantify the relationship between exercise consistency and cardiovascular health metrics.

Project Handbook (Subex) **May 2023 – July 2023**
- Designed and deployed an internal portal using Python, PHP, and Docker to centralize customer and server details.
- Integrated predictive analytics for monthly server usage patterns, enabling proactive capacity planning.

Automated Timetable Generation **Undergrad Capstone, 2021**
- Developed a Genetic Algorithm-based scheduling system with a user-friendly portal for faculty and students.
- Achieved 95% reduction in administrative workload by fully automating schedule creation.

Facial Emotion Detection **Internship, 2019**
- Implemented real-time ML pipeline with TensorFlow & OpenCV to detect emotions from webcam input.
- Optimized pipeline for faster inference without compromising model accuracy (92%).

Skills

Programming & ML: Python, SQL, NumPy, Pandas, Scikit-Learn, TensorFlow, PyTorch, NLTK, OpenCV
Data & Cloud: Hadoop, Spark, Big Data, Kubernetes, Docker, Git
Specialties: ETL pipelines, Automation, Cloud Infrastructure (OCI, AWS concepts), Data Analytics
Other: Statistics, Data Structures, Linux, DBMS

Certifications

Oracle: OCI Generative AI Professional (2024), OCI AI Associate (2024)
Coursera: Machine Learning Specialization (University of Washington) (2020)
NPTEL: Python for Data Science, Data Analytics with Python
Udemy: Kubernetes, Docker | **HackerRank**: Python (5★), Java (4★)