Abhishek Rithik Origanti

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EDUCATION

UNIVERSITY OF MARYLAND College Park, MD
Master's in Data Science Aug 2024 – May 2026
Relevant Coursework Machine Learning, Statistics, Data Analysis, Cloud Computing, Big Data Systems.

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY Chennai, India
BTech- Computer Science and Engineering-AI & ML Aug 2020 – May 2024

EXPERIENCE

COUNSELING CENTER, UNIVERSITY OF MARYLAND College Park, MD
Graduate Student Data Analyst Sep 2024 – Present
- Analyzed more than 5,000 records using SQL and Python to build reliable analytics assets that enabled data-driven resource planning and policy decisions.
- Developed Random Forest and Logistic Regression models with hypothesis testing and feature analysis, improving prediction accuracy by 20% and reducing manual effort by 30%.
- Built interactive dashboards to monitor outcomes and resource allocation in near real time to support operational decision-making.

INTERLINKED CORPORATION Remote, US
Data Engineer Intern May 2025 – Sep 2025
- Designed and deployed scalable, distributed ELT pipelines processing 2M+ daily events using Airflow, Docker, and SQL, enabling time-series forecasting, anomaly detection, and scenario modeling.
- Implemented automated data quality checks and an offline model evaluation framework, increasing pipeline throughput by 50% while ensuring reliable data with 95% accuracy.
- Collaborated with data scientists to streamline experimentation, accelerating production deployment of predictive models.

THE CODING SCHOOL Remote, US
Teaching Assistant for the High school Data Science Research Program Jun 2025 – Aug 2025
- Mentored over 20 learners in Python, statistics, and ML concepts, guiding them through EDA, modeling, and evaluation while simplifying technical concepts for non-technical audiences.
- Coached five student teams using mock client reviews, improving final project outcomes by 15%.
- Designed workshops and exercises to strengthen experiment design, error analysis, and problem-solving.

OPEN WEAVER Chennai, India
Machine Learning Engineer Intern Jul 2023 – Sep 2023
- Leveraged algorithmic optimisation and efficient data structures to build scalable ML pipelines in Python and TensorFlow that could process more than 10,000 records for faster, more reliable training.
- Improved training efficiency by reducing per-epoch runtime by 30% while maintaining 98% accuracy and scalability across datasets.
- Documented inference workflows and deployment practices to ensure reproducibility and team adoption.

ACADEMIC PROJECTS

Real-Time Bitcoin ETL Pipeline and Time Series Analysis (Power BI) Feb 2025 – May 2025
- Designed an AWS-enabled ETL pipeline using Python (requests, pandas) to ingest 1,440 daily records from the CoinGecko API, landing data in S3 and supporting 15-minute streaming refreshes in Power BI dashboards.

Predicting EV Trends and Charging Needs Aug 2024 – Dec 2024
- Developed predictive models using Pandas and Scikit-learn on 50,000+ vehicle records, achieving 92% accuracy in forecasting EV demand and charging needst.

SKILLS

- **Programming & Data**: Python, SQL, R, Bash, Data Structures & Algorithms
- **Data Engineering & Distributed Systems**: Apache Spark, Hadoop, ETL/ELT Pipelines, Airflow, Stream Processing, Data Warehousing
- **Cloud & DevOps**: AWS Cloud (EC2, S3, Lambda, RDS, Glue, Redshift, SageMaker, IAM), Docker, Kubernetes, CI/CD
- **Machine Learning & MLOps**: PyTorch, TensorFlow, Scikit-learn, XGBoost, NLP (SpaCy, Hugging Face), A/B Testing, Time Series, Statistical Analysis
- **Databases & Tools**: PostgreSQL, MySQL, MongoDB, NoSQL, Tableau, Power BI, Excel, Git, Data Wrangling, Business Analysis