REVANTH KUMAR KUNDINA

revanthkumarkundina@gmail.com ◇ (561) 664-6688 ◇ Boca Raton, FL
www.linkedin.com/in/revanthkundina

PROFESSIONAL SUMMARY

- Senior Data Scientist with **expertise in AI/ML**, statistical modeling, and data mining, skilled in transforming high-dimensional raw datasets into actionable insights that drive predictive strategies and business intelligence initiatives, leading to a **30% improvement in decision accuracy** and **25% reduction in reporting latency**; proficient in supervised and unsupervised learning, feature engineering, and model interpretability to build scalable, explainable, and high-performance **data-driven solutions**, achieving **40% faster model iterations**.

- Experienced in designing end-to-end ML workflows with MLOps tools like MLflow and Airflow, developing **automated CI/CD pipelines** for seamless model deployment, real-time inference, monitoring, and **lifecycle management** in cloud-native environments (AWS, GCP), resulting in **35% faster model rollouts** and enhancing production reliability.

EDUCATION

Florida Atlantic University   Oct 2023 - May 2025
Master of Science (M.S.) in Data Science & Analytics (Dept of Electrical Engineering & Computer Science)   Florida, *USA*
GPA: 3.9/4.0

WORK EXPERIENCE

Mercedes-Benz Research and Development India (MBRDI)   Jan 2023 - Oct 2023
Senior Data Scientist   Bangalore, *IN*

- Led end-to-end development of a **regression model** using **Python, Scikit-learn, Pandas**, and **NumPy** to predict **maximum stress** in components, reducing manual analysis time by **70%**. Integrated with **Databricks** and tracked via **Git** to ensure scalable development

- Applied **predictive analytics** and **statistical modeling** to optimize simulation thresholds, reducing unnecessary runs and saving **30% CPU time**, leveraging **AWS EC2**, **MLflow**, and **Docker** for scalable deployment.

- Designed and deployed an **ETL pipeline** using **Apache Airflow**, **PostgreSQL**, and **Python**, integrating vehicle dynamics and sensor data. Implemented **data quality checks** enabling downstream analytics in **Power BI**, accelerating report delivery by **25%**.

- Built **classification models** with **XGBoost** and **Random Forest** for **predictive maintenance**, using inputs like **material fatigue** and **stress thresholds**, applying **feature selection** and model interpretation with **SHAP**, reducing unexpected failures by **20%.**

- Managed the complete **ML lifecycle** with **Airflow**, **MLflow**, and **Terraform**, including retraining, versioning, and monitoring. Delivered actionable insights through **Tableau dashboards**, improving cross-team decision-making efficiency by **30%.**

Hyundai Motors India Engineering pvt ltd (HMIE)   Aug 2016 - Dec 2022
Data Scientist   Hyderabad, *IN*

- Developed **predictive models** using **Random Forest** and **XGBoost** on vehicle sensor data to reduce simulation runs by forecasting critical parameters, cutting computational time by **30%** and accelerating design cycles.

- Engineered data pipelines and applied regression and classification techniques with **Apache Airflow** to analyze vehicle dynamics, enabling predictive maintenance that decreased unexpected failures by **25%**.

- Analyzed **employee data** with **Python** and **DBT**, creating dashboards in **Tableau** that improved workforce retention insights and contributed to a **15% reduction** in voluntary turnover.

- Built end-to-end **churn prediction** and **fraud detection** models using **Spark MLlib** and deep learning frameworks (**TensorFlow/Keras**), deployed on **Azure ML**, resulting in a **20% increase** in fraud detection accuracy and a **10% improvement** in customer retention.

- Automated large-scale **sales data** ingestion, transformation, and real-time analytics using **Databricks**, **Kafka**, and containerized deployments with **Docker** and **Kubernetes**, accelerating report generation time by **40%** and enabling faster business decisions.

PROJECTS

Suspension Travel Depth Estimation | *Python, Scikit-learn, TensorFlow, Pandas, NumPy, Apache Airflow*   May 2023

- Designed and developed predictive models (Random Forest, Neural Networks) for suspension travel estimation, utilizing sensor data to improve model accuracy and performance.

- **Automated the end-to-end product development** (ML Pipeline) using Apache Airflow, streamlining data ingestion, feature engineering, and model training, **cutting down processing time by 30%** and improving data management strategies.

- **Achieved a 27% improvement in prediction accuracy** through hyperparameter tuning, optimizing workflow efficiency and reducing manual efforts in model deployment.

Customer Behavior Segmentation & Revenue Forecasting | *Python, R, SQL, Hive, Airflow, Tableau,*   May 2023
Jupyter Notebook, Hadoop

- Designed clustering (K-Means, DBSCAN) and classification models (Logistic Regression, Random Forest) to segment customer behavior across 10M+ transaction records stored in Hadoop and Hive.
- Automated data extraction and feature engineering using **Apache Airflow and SQL**, reducing pipeline latency by 35% and enabling dynamic revenue predictions across business units.
- Created interactive Tableau dashboards to visualize customer patterns, retention rates, and LTV, resulting in a 22% increase in marketing ROI.
- Partnered with product and business teams to define KPIs and deliver actionable insights via **Tableau presentations** and visual storytelling.

SKILLS

Programming Languages: Python, R, SQL (MySQL, PostgreSQL, SQLite, Oracle, SQL Server), NoSQL, Bash, Shell Scripting

Machine Learning & Analytics: Pandas, NumPy, Scikit-learn, TensorFlow, Keras, PyTorch, XGBoost, LightGBM, Matplotlib, Seaborn, Plotly, Supervised & Unsupervised Learning, Regression, Decision Trees, Random Forest, SVM, Ensemble Methods, Clustering (K-Means, Hierarchical), PCA, NLP (LSTM, Transformers), Anomaly Detection, A/B Testing, Experimental Design, Predictive Modeling, EDA, Hypothesis Testing, Fraud Detection, Reinforcement Learning, Operations Research

Big Data, Cloud & DevOps: Apache Spark, Hive, Hadoop, MapReduce, Airflow, Kafka, Databricks, AWS (SageMaker, Redshift), GCP (BigQuery), Azure, Snowflake, Docker, Kubernetes, Terraform, MLflow, CI/CD, ETL Pipelines, Model Deployment & Monitoring

Business Intelligence & Visualization: Tableau, Power BI, Looker, Excel

Tools & Soft Skills: Git, GitHub, PyCharm; Data Storytelling, Strategic Thinking, Collaboration, Problem Solving, Leadership, Communication

CERTIFICATIONS

[Artificial Intelligence Certification](#), Florida Atlantic University - Distinction grades in AI,   Apr 2024
Machine Learning (AI/ML) and Deep Learning

[Technical Interview Preparation Certification](#), CodePath   - Advanced Python and data structures   Dec 2024