

Maneesh Anand

Data Engineer

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Professional Summary

Data Engineer with a Master's in Computer Science specializing in scalable data pipelines, cloud-native analytics systems, and machine learning integration. Experienced in ETL/ELT development, SQL optimization, backend architecture, and deploying ML models in production environments. Strong background in transforming raw structured and unstructured datasets into reliable, high-performance data solutions that support business intelligence and predictive analytics.

Technical Skills

- Programming: Python, SQL
- Data Engineering: ETL/ELT Pipelines, Data Modeling, Data Warehousing, Query Optimization
- Cloud: AWS (S3, EC2, Lambda, Redshift, Glue), Google Cloud Platform
- Machine Learning: Scikit-learn, TensorFlow, Model Evaluation, Hyperparameter Tuning
- Databases: MySQL, PostgreSQL, MongoDB
- Tools: Git, Docker, Django, Flask, Power BI, OpenCV, Linux

Professional Experience

- Project Team Lead – University of Central Missouri (Oct 2024 – Feb 2025): Led full-stack parking management platform using Django and MySQL. Designed REST APIs and real-time vehicle allocation system. Improved operational efficiency through automation and reporting pipelines.
- Machine Learning Engineer Intern – Cognibot (Jul 2023 – Nov 2023): Developed computer vision pipelines using TensorFlow and OpenCV. Built regression and classification models. Optimized model performance using cross-validation and hyperparameter tuning.
- Data Analyst – Brane Enterprises (Oct 2022 – May 2023): Analyzed large datasets for business insights. Built complex SQL queries and KPI dashboards. Automated reporting workflows using Python.

Projects

- Forest Cover Type Prediction: Built ML classification pipeline with feature engineering and model evaluation.
- Real-Time Sign Language Recognition: Developed TensorFlow-based CNN model integrated with OpenCV for live inference.
- EZ Parking AI Platform: Designed scalable backend system with Django and MySQL including analytics tracking.

Certifications

- Google Advanced Data Analytics Certificate
- IBM Data Analyst Professional Certificate
- AWS Machine Learning Certification