

# MANEESH ANAND

Data Engineer — Machine Learning Engineer — AI Systems Developer

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## PROFESSIONAL SUMMARY

Data Engineer and Machine Learning professional with a Master's in Computer Science and hands-on experience building scalable backend systems, AI-driven applications, and production-ready ML pipelines. Strong expertise in Python, SQL, computer vision, and AWS cloud infrastructure. Experienced in designing efficient data architectures and deploying intelligent systems.

## TECHNICAL SKILLS

**Languages:** Python, SQL, R, JavaScript **Frameworks:** Django, Flask **Machine Learning:** TensorFlow, OpenCV, Scikit-learn, CNNs, Regression, Classification **Data Engineering:** ETL Pipelines, Data Modeling, Data Warehousing, Data Cleaning **Cloud:** AWS (S3, EC2, Lambda, Redshift, Glue) **Databases:** MySQL, PostgreSQL, MongoDB **Tools:** Git, Docker, Linux, Jupyter Notebook

## PROFESSIONAL EXPERIENCE

### Project Team Lead

Oct 2024 – Feb 2025 University of Central Missouri, Missouri, United States

- Led development of a full-stack parking management platform using Python, Django/Flask, and MySQL.
- Designed normalized database schema and RESTful APIs for real-time vehicle tracking and slot allocation.
- Implemented automated billing and occupancy analytics, improving operational efficiency by 30%.
- Built admin dashboard for monitoring usage metrics, revenue, and peak-hour traffic.
- Managed system testing, debugging, and deployment lifecycle.

### Machine Learning Engineer (Intern)

Jul 2023 – Nov 2023 Cognibot, Chennai, India

- Designed computer vision pipelines using OpenCV and TensorFlow for image classification tasks.
- Built regression and classification models to forecast business KPIs and improve predictive accuracy.
- Applied feature engineering, model evaluation, and hyperparameter tuning to optimize performance.
- Evaluated models using accuracy, precision, recall, and RMSE metrics.

### Data Analyst

Oct 2022 – May 2023 Brane Enterprises, Hyderabad, India

- Analyzed structured and unstructured datasets to support data-driven business decisions.
- Developed complex SQL queries for extraction, transformation, and automated reporting.
- Built KPI dashboards to monitor operational and financial performance.
- Improved reporting workflows through query optimization and data modeling.

## SELECTED PROJECTS

### EZ Parking Lot Management System with AI Chatbot

- Developed full-stack web application using Django/Flask, MySQL, HTML, CSS, and JavaScript.
- Integrated NLP-based AI chatbot for real-time slot availability, booking, and customer interaction.
- Designed REST APIs for dynamic allocation and payment processing.
- Implemented analytics module to track occupancy rates and revenue trends.

### Gym Management System

- Built web-based gym management platform using Django framework and MySQL backend.
- Designed relational database schema for member registration, subscription plans, trainer assignments, and attendance tracking.
- Implemented secure authentication and role-based access for admin, trainers, and members.
- Automated membership billing, renewal notifications, and performance tracking.
- Developed dashboard to monitor revenue, active memberships, and usage statistics.

### Forest Cover Type Prediction

- Built supervised machine learning model using Scikit-learn to classify forest cover types.
- Performed feature engineering and cross-validation to improve classification accuracy.

### Real-Time Sign Language Recognition

- Developed CNN-based real-time gesture recognition system using TensorFlow and OpenCV.
- Implemented live camera feed processing pipeline optimized for low-latency inference.

## EDUCATION

Master of Science in Computer Science University Name, United States

## **CERTIFICATIONS**

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