

LAVANYA GOPISETTY

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ABOUT ME

Graduate student in Computer Science with experience in data science, machine learning, and AI. Skilled in Python, data analysis, visualization, and communicating insights effectively.

EDUCATION

CALIFORNIA STATE UNIVERSITY

Carson, CA, USA

- **Master of Science in Computer Science with 3.9/4 CGPA**
- **Relevant Coursework:** Data Structures, Software Engineering, Operating Systems, Machine Learning, Deep Learning, Artificial Intelligence, Object Oriented Analysis Design.

LENDI INSTITUTE OF ENGINEERING AND TECHNOLOGY

Vizag, AP, India

Bachelors of Technology in Electronics and Communication Engineering with 7.23 CGPA

September 2020

WORK EXPERIENCE:

COGNIZANT(Associate)

(Feb 2021 -July 2023)

- Automated 200+ manual test cases using Selenium and Magnolia, improving efficiency by 90% and saving 70+ hours/month.
- Developed Java-based scripts for workflow automation, increasing process efficiency by 80%. Performed backend validation with SQL across multiple databases, improving data consistency by 30%.
- Used REST Assured for API testing, ensuring data integrity across microservices.
- Analyzed test performance data and communicated insights and process improvements to technical and non-technical stakeholders.

PROJECTS

- **Essay Scoring System (Python, BERT, Flask):** Collected and cleaned essay data, performed EDA, and fine-tuned BERT to predict scores with 82% human-rater agreement.
- **Self-Driving Car (Python, TensorFlow, OpenCV):** Implemented semantic segmentation and distance detection with 88% accuracy in real-time scenes, covering full ML lifecycle from data preprocessing to model evaluation.
- **Face Recognition (PyTorch, Python):** Built a Siamese neural network model achieving 75% recognition accuracy, applying classification and model tuning methods.
- **Automated Parking System (YOLOv8, OpenCV, Flask):** Designed parking detection system (90% accuracy, 25 FPS) with web-based slot booking and dashboard visualization.

SKILL BUILDING PROJECTS

- **Linear Regression:** Build a simple house price predictor using linear regression ($R^2 \sim 0.85$).
- **CNN Model:** Implemented a CNN model for handwritten digit recognition using TensorFlow (Accuracy ~96%).
- **Data Modeling & Visualization:** Designed relational and star-schema data models using SQL and PostgreSQL, created ER diagrams and dashboards to visualize entity relationships and data flow.
- **Customer Segmentation:** Applied K-Means clustering and PCA for customer segmentation and behavioral insights.
- **Frontend Project:** Designed a responsive portfolio website using React.js, CSS, and API integration.
- **Backend Project:** Built an E-commerce backend system using Node.js and Express with MongoDB, implementing RESTful APIs, user authentication, and order management.

SKILLS

- **Languages :** C, Java, Python, HTML/CSS, SQL, Bash, Git
- **Frameworks:** Scikit-learn, TensorFlow, PyTorch, XGBoost, Hugging Face Transformers, OpenCV, Flask,
- **Databases & Data Storage:** MySQL, PostgreSQL, SQLite
- **Cloud Services:** Google Cloud Platform (GCP), AWS (S3, EC2, SageMaker)
- **Version Control & Tools:** Git, GitHub, GitLab, VS Code, Jupyter Notebook, Google Colab, Docker, VS

CERTIFICATIONS

- Leet code top sql 50
- Leet code Blind 75
- Machine Learning Google crash course