

# Likhith

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## Professional Summary

Computer Science graduate student at the University of North Texas with internship and project experience in software development, AI/ML, and data-driven applications. Built and deployed real-time computer vision and NLP features using Python, PyTorch, TensorFlow, YOLOv8, BERT, AWS SageMaker, Flask, Streamlit, and PostgreSQL. Comfortable working end-to-end across data pipelines, model development, and backend applications; seeking entry-level software engineering, AI/ML, or full-stack roles.

## Technical Skills

- **Programming:** Python, C++, JavaScript, Ruby
- **AI/ML:** PyTorch, TensorFlow, scikit-learn, YOLOv7, YOLOv8, ResNet, BERT, NLP, Computer Vision
- **Full-Stack Development:** Flask, Streamlit, Ruby on Rails
- **Databases & Analytics:** PostgreSQL, SQL, MongoDB, BigQuery, Power BI
- **Cloud & Tools:** AWS, S3, SageMaker, Docker, Git, Google Cloud Platform (GCP)

## Experience

### University of North Texas | *Student Assistant*

Feb 2025 - Feb 2026

- Wrote Python scripts to automate form validation and feedback summarization, reducing processing time and manual errors.
- Managed scheduling and communication using Outlook, Slack, and Google Sheets to keep meetings and resources organized.

### Prasthana Software Solutions | *AI/ML & Full-Stack Developer Intern*

Jun 2023 - May 2024

- Developed onboarding features with Python, Flask, and PostgreSQL that streamlined the user registration flow and reduced friction during sign-up.
- Built and deployed a real-time image detection system using YOLOv8, ResNet, and AWS SageMaker that achieved 98% accuracy and improved processing speed by 40%.
- Created Python data-preprocessing pipelines using pandas and scikit-learn that automated image preparation, cutting manual effort and speeding up model training.
- Built a sentiment analysis feature using BERT and Streamlit to identify user feedback trends and improve user satisfaction by 20%.
- Participated in Agile sprints, code reviews, and team discussions to support faster, more reliable feature delivery.

### Amrita Vishwa Vidyapeetham | *Mobile Ad Hoc QoS Researcher*

Apr 2023 - Jun 2023

- Ran MANET QoS experiments using NS-3, PyTorch, and Docker, improving network efficiency in the tested scenarios.
- Analyzed routing, mobility, and packet flow using Python scripts and simulations, identifying key inefficiencies that informed protocol-improvement recommendations
- Reviewed recent research papers and documented key findings, giving the team a concise reference that informed our QoS testing approach.
- Prepared LaTeX reports and presented results to the research team, helping guide decisions on follow-up experiments and focus areas.

### *Software Engineering Researcher*

Oct 2022 - Apr 2023

- Built automation tools with Flask and PyTorch to reduce repetitive tasks.
- Helped organize research workflows and project milestones with the team so progress and deadlines were easier to track.
- Used Git for version control and documented weekly progress updates to keep the team aligned on code changes and project status.

## Projects

### IntelliFace - AI Attendance System

- Built a face-recognition attendance system using YOLOv8 and ResNet for real-time webcam check-ins.
- Implemented a pipeline for face detection, attendance logging, and dashboard visualization.
- Developed a Streamlit and Flask interface for non-technical users.

### Smart Curb Parking System

- Built a smart parking system using YOLOv7 and ILPD-NET to detect illegally parked vehicles.
- Applied image preprocessing techniques such as edge detection and Gaussian filtering to improve detection reliability.
- Connected camera feeds to a real-time parking monitoring pipeline.

## Education

### University of North Texas

Aug 2024 - May 2026

*M.S., Computer Science (GPA: 3.7)*

*Denton, Texas*

- **Coursework:** Artificial Intelligence, Machine Learning, Big Data, Software Engineering, Advanced Algorithms, Cloud Computing, Software Development for AI

### Amrita School of Engineering

Aug 2020 - May 2024

*B.Tech, Computer Science (GPA: 7.17)*

*Chennai, India*

- **Coursework:** Data Structures and Algorithms, Operating Systems, OOP, Distributed Systems, DBMS, Web Technologies, Artificial Intelligence, Machine Learning, Cloud Computing

## Certifications

- Google Cloud Computing Certification
- Microsoft: Design and Manage Analytics Solutions Using Power BI (PL-300) - In progress
- AWS Solutions Architecture Virtual Experience (Forage)
- Accenture Developer Virtual Experience (Forage)
- C++ Course (Udemy)