

# Keerthi BS

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## Summary

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Graduate AI and Data Science Engineer with hands-on experience in real-time Computer Vision, NLP, RAG pipelines, and cloud-based application deployment. Demonstrated expertise in applying Python, ML, and cloud technologies to solve complex problems.

## Education

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### Nitte Meenakshi Institute of Technology

*B.E in Artificial Intelligence and Data Science - 9.0 CGPA*

**Dec 2021 – June 2025**

*Bengaluru, India*

### BASE Pre-University College

*PCMB - 91%*

**June 2019 – May 2021**

*Bengaluru, India*

## Experience

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### LiquidMind Ai

*ML Engineer Intern*

**Feb 2025 – April 2025**

*Bengaluru, India*

- Engineered Automated RAG-based Q&A Chatbot system with OCR and Llama, achieving over 95% text extraction accuracy for business documents.
- Streamlined RAG pipeline with vector databases, boosting answer precision by 20%.
- Optimized prompting, reducing query latency by 15% and enabling semantic search.

### Intel

*Associate Engineer - Trainee*

**May 2024 – July 2024**

*Bengaluru, India*

- Engineered a real-time TeleICU patient monitoring system using YOLOv8 and OpenCV, reducing false positives through high-precision activity detection and enabling holistic assessment via facial cues, posture, and activity signals.
- Optimized video inference pipeline, achieving 15–25% faster anomaly detection latency, enhancing response times in critical care scenarios.

## Projects

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### Real-Time Road Hazard Detection and Alert System | *Python, Visual Studio*

- Diagnosed and deployed a real-time road hazard detection system using YOLOv8 and gTTS on NVIDIA Jetson Xavier NX, achieving sub-30ms latency for instant voice alerts, enhancing driver safety.

### Medicine Recommendation System | *Python, Visual Studio*

- Developed a personalized medicine recommendation system using TF-IDF and cosine similarity, processing 1,000+ records to achieve 20% improved accuracy in symptom-based suggestions.

### Cloud-Based Applications Development | *Cloud, Microsoft Azure*

- Deployed scalable Azure web applications with App Services, Blob Storage, and CI/CD pipelines, integrating secure SQL databases and Virtual Networks for sub-second response times and 15% efficiency gains.

## Technical Skills

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**Languages:** Python, SQL, Java **Developer Tools:** VS Code, GitHub

**Technologies/Frameworks:** Data Science, Azure, OpenCV, Pandas, TensorFlow, Hadoop, GCP, Agile Technologies, Analytics **Machine Learning & AI:** Deep Learning, Computer Vision, RAG, NLP, Scikit-learn, Matplotlib, Power BI, Tableau, ETL pipelines, LLM, ML algorithms

## Certificates

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- NLP Using Python | **Infosys SpringBoard**
- Introduction to Generative AI | **Google Cloud Platform**
- AWS Cloud Architecture | **AWS Academy**
- CompTIA Network+ Certification | **Infosys SpringBoard**

## Publications

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- *Enhancing Campus Safety Monitoring: A Machine Learning Approach* - **Springer Nature's ebook - "Advances in AI and ML"**
- *Pothole Detection for Safer Roads Using Machine Learning* - **IEEE 3rd WCONF 2025**

## Extracurricular Activities

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- Led BUG BASH 2024 Hackathon as CIS IEEE Society EXCOM member and contributed to SIH 2023 and Eureka 2022 Hackathons, developing innovative AI solutions.
- Collaborated on Azure-based AI security solutions at Microsoft's Ignite Ideathon 2024 and gained insights on containerization and AI ethics at AWS Workshop 2023 and Mindvalley AI Summit 2025.