Krishna Priya

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EDUCATION

Indiana University Bloomington **CGPA: 4.0/4.0**
Master of Science, Computer Engineering - Intelligent Systems *Dec 2025*

Indian Institute of Technology Kanpur (Ranked 4^{th} in India) **CGPA: 3.8/4.0**
Master of Science, Electrical & Electronics Engineering *July 2022*

EXPERIENCE

Machine Learning Engineer **Aug 2022 - Aug 2023**
Cogoport Private Limited *Mumbai, India*

- and trained a custom machine learning model for object detection to extract and process the data using PyTorch achieving 98 % accuracy, and integrated the OCR system with existing applications, reducing processing time by 50 %.
- Designed algorithms and pricing models, incorporating dynamic pricing strategies that adapt in real-time, enhancing profitability and competitiveness in the market.
- Migrated the pricing engine for haulage and trailer services from a monolithic architecture to microservices, enabling seamless data extraction and document processing, improving operational efficiency for internal and external stakeholders.
- Developed and deployed a backend automation system to monitor, aggregate, and analyze data related to freight operations, enhancing operational efficiency up to 70%.
- Designed and implemented a Natural Language Processing (NLP) powered multi-classification system for email content, streamlining email categorization, and implemented corresponding APIs for efficient data processing.

Software Engineer **June 2018 – April 2019**
Larsen & Toubro Infotech Limited *Bangalore, India*

- Developed system to facilitate real-time extraction and in-depth analysis of sensor-generated data collected from a fleet of automobiles, enabling data-driven insights and optimizations.
- Monitored the Azure Cloud platform to ensure seamless and uninterrupted data storage, employing advanced cloud monitoring and management techniques to maintain data integrity and availability.
- Worked at the organization's IoT Center of Excellence, where I focused on asset performance management by harnessing data derived from generators in active deployment across the campus.

PROJECTS

Doctor-Patient ChatBot using LLM Fine-tuning **April 2024 - May 2024**

- Developed a healthcare chatbot by fine-tuning the open-source LLM, Mistral-7B, on the HealthCareMagic-100k dataset, effectively enabling real-time medical consultations via an intuitive Gradio interface.
- Optimized chatbot performance using QLoRA and PEFT to efficiently utilize limited GPU resources and evaluated its accuracy with BLEU, ROUGE, and METEOR metrics showcasing the potential for future scalability

MediApp: Patient & Health Insurance Management Web Application

- Developed a full stack project using React and Django that provides a comprehensive platform for patients, doctors, and insurance providers to manage medical records, appointments, and insurance claims.

Fringe Analysis Using Deep Learning Method **July 2021 - Nov 2021**

- Implemented a CNN V-net model to improve fringe analysis by addressing external noise limitations, benchmarking against a mathematical model, and evaluating performance on noise-corrupted fringe patterns (128x128 pixels) with varying noise levels and phase distributions.

COMPETENCIES

Technical Skills: LLM, Gen AI, Image Processing, Machine Learning, Deep Learning, Natural language Processing, Computer Vision, Feature Engineering, Object Oriented Programming, Algorithm Design, Advanced Mathematics
Languages: Python, C++, MATLAB, HTML, CSS, JavaScript, SQL
Technologies: Git, Docker, Postman, FastAPI, AWS, Azure, Pytorch, ReactJS
Databases:SQL, PostgreSQL, MongoDB