Gagan Meena

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EDUCATION

Indian Institute of Technology Kharagpur   **Electrical Engineering**
B.Tech   *Nov 2021 - Apr 2025*

WORK EXPERIENCE

Enerzyflow   **Kharagpur, India**
Software Engineer (Internship)   *Dec 2023 - Mar 2024*

- Designed user-friendly data entry portal in **NextJS** for airline providers, improving data entry efficiency by **25%**
- Spearheaded the development of a **RAG-based** application with **SpringAI** reducing onboarding time by **20%**
- Engineered and deployed email-validation API using JavaMail in **Spring Boot**, reducing invalid user entries by **5%**

FullCircle   **Remote**
Backend Engineer (Internship)   *Dec 2024 - Feb 2025*

- Developed a robust **backend** system using **FastAPI**, sustaining **5,000** API requests per minute with **99%** uptime
- Collaborated with a team of 4 to architect a **document parsing** and **RAG pipeline**, processing **5K+** PDFs, TXTs, and JSONs using **Haystack**, **Pinecone**, and **OpenAI**
- Innovated a **hybrid recommendation** system by integrating **keyword-based** search with **NLP-driven** semantic matching, boosting revenue by **30%**
- Expanded project scope to include **2 new features** based on user feedback, improving user engagement by **12%**

PROJECTS

Smart Traffic Management
Prof Sudip Misra, IIT Kharagpur   *Aug 2023 - Oct 2023*

- Trained a **LSTM** model on **time series** dataset of 48000+ data points for **forecasting** traffic volume at junctions
- Leveraged **Python**, **Keras**, and **Pandas** to develop a high-precision forecasting model, achieving an **R^2** of **0.95** and reducing error with an **RMSE** of **4.43**
- Optimized routing strategies to potentially reduce vehicle delays by **15%** and cut travel times by **10%**, enhancing overall **traffic efficiency**

Prediction of Entity Values from Images
Amazon ML Challenge   *Sep 2024 - Sep 2024*

- Led a team of 4 engineers to secure a **top-250** rank out of **75,000+** participants in a highly competitive **3-day ML Challenge**
- Collaborated closely on implementing **EasyOCR**-based text extraction for a dataset of **300,000** diverse images
- Spearheaded the development of dual **entity extraction** strategies, incorporating a **fine-tuned BERT** model alongside **RegEx** matching, which improved entity value prediction accuracy to **42%** on the test dataset

ACHIEVEMENTS

- Led the RK Hall Volleyball's Team to win bronze medal in the General Championship 2024-2025

TECHNICAL SKILLS

Languages & Concepts: C++, Python, JavaScript, Java, SQL, Object Oriented Programming (OOP)
Frameworks & Libraries: Spring Boot, Spring AI, Node JS, Express, React, Next JS, TensorFlow, PyTorch
Tools & Platforms: Git, GitHub, Docker, MySQL, MongoDB, PGVectorDB, AWS
Machine Learning: LSTM, BERT, CNN, EasyOCR, Clustering, Time Series Analysis

COURSEWORK INFORMATION

Programming and data structures | Algorithms 1 | Image processing | Internet of Things | Machine learning foundations and applications | Deep Learning | Linear Algebra for AI/ML | Probability and Statistics | Advanced Calculus