Deepanshu Dawande

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Summary

Software Engineer with 3+ years at Qualcomm building automation and extensibility tools for 5G systems. Currently pursuing a master's in Data Science and AI at the University of Liverpool, focusing on LLM driven applications. Experienced in Python, C++, JavaScript, and large scale deployment environments. Skilled at working with cross functional teams across locations to deliver scalable features.

Education

University of Liverpool **Sept 2024 – Present**
MS in Data Science and Artificial Intelligence, Department of Computer Science *Liverpool, UK*

National Institute of Technology Tiruchirappalli **Aug 2017 – May 2021**
Bachelor of Technology in Electronics and Communication Engineering *Tiruchirappalli, India*

Technical Skills

Languages: Python, C++, C, Java, JavaScript, SQL
Frameworks / Tools: PyTorch, Docker, Git, GitLab, PySpark, VS Code, JIRA, Streamlit, LangChain, Ollama
Concepts: API/SDK Development, LLM Applications, Prompt Engineering, NLP, Deep Learning, OOP
Certifications: Machine Learning with Python (IBM), Java for Android (Vanderbilt)

Experience

Software Engineer **June 2021 – August 2024**
Qualcomm *Hyderabad, India*

- Built **Page Miss Analyzer**, a Python-based extensibility tool for NR-IDLE mode analysis, enabling early detection of missed 5G calls. Adopted by MST with 1000+ monthly runs.
- Developed automated Python pipeline to detect and diagnose 5G NR data stalls end-to-end, reducing log analysis time by **50%** and improving team-wide debugging efficiency.
- Collaborated directly with OEMs (Samsung, Motorola) and infrastructure vendors (Airtel, Jio) to triage and resolve Access Stratum issues across distributed teams.
- Contributed **15+ enhancements** to the 5G NR stack, improving throughput and reliability at lower layers.

Software Intern **May 2020 – July 2020**
Qualcomm *Hyderabad, India*

- Created a conversion API pipeline to transform **TensorFlow, Caffe, ONNX** models into HexNN graphs for execution on Qualcomm DSPs, extending platform compatibility.
- Integrated SNPE framework and automated pipeline, reducing graph conversion time by **90%**.

Privacy in ML Intern **May 2019 – July 2019**
IIT Madras *Chennai, India*

- Explored privacy preserving ML algorithms on the Shakti Microprocessor under Prof. V Kamakoti.
- Built hybrid ML models combining CNNs with classical models (SVM, RF, KNN) to achieve **95% accuracy** on MNIST.

Technical Projects

Knowledge Graph-Based Question Complexity Estimation **Mar 2025 – Present**
University of Liverpool *UK*

- Designed modular analytics pipeline exposing APIs for triple extraction, question generation, and difficulty scoring using LLMs and PyTorch embeddings.

Positions of Responsibility

Training and Placement Co-ordinator **May 2020 – June 2021**
NIT Trichy *India*

- Interacted with HR teams and led the coordination of campus placement sessions.