KRISH PATEL

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SUMMARY

Graduate student in Computer Science at Arizona State University with hands-on experience in software engineering, system design, and machine learning. Skilled in C/C++, Python, Java, and scripting, with projects spanning debugging, automation, AI-driven image analysis, and full-stack development. I like solving technical problems with efficient code, and I work best in teams that value collaboration and impact.

EDUCATION

M.S., Computer Science Graduating May 2027
Arizona State University, Tempe, AZ
Ira A. Fulton Schools of Engineering
Relevant coursework: Cloud Computing, Knowledge Representation, Statistical Learning Theory

B.Tech., Information and Communication technology May 2025
Pandit Deendayal Energy University, GUJARAT, INDIA 9.24/10
School of Technology
Relevant coursework: Operating Systems, Machine Learning, Artificial Intelligence

TECHNICAL SKILLS

Core CS: Data Structures, Algorithms, Operating Systems, Computer Networks, Databases, AI/ML
Programming: C, C++, Python, Java, JavaScript, SQL, Linux Shell, PowerShell
Frameworks & Tools: Django, Spring Boot, React, Node.js, Docker, Git, Streamlit, Scikit Learn, LangChain
Concepts: Software Engineering, Data Science, Generative AI, Computer Architecture, Embedded Systems

PROFESSIONAL EXPERIENCE

Blink Analytics, India: Data Science and LLM Intern Dec 2024 – May 2025

- Prepared and optimized large datasets and automated preprocessing pipelines for fine-tuning LLMs, improving domain-specific accuracy.
- Contributed to Generative AI projects by building software prototypes, debugging performance issues, and applying advanced ML techniques.
- Translated research ideas into production-ready code with measurable improvements, documenting workflows and testing results.

Neurapses Technologies, India: Machine Learning Intern May 2024 – July 2024

- Engineered a Neo4j-based medicine knowledge graph by web-crawling structured/unstructured medical data.
- Developed an AI chatbot using LLaMA3, integrating NLP with database queries.
- Applied debugging methodologies to connect NLP models with structured storage, ensuring system reliability in healthcare applications.

PROJECTS

Hyperspectral Image Analysis for Fruit Ripeness Detection
Learned to manage high-dimensional datasets and implement real-world classification systems..

- Built deep learning models for ripeness detection using a 224-band hyperspectral dataset.
- Applied data augmentation and band selection to balance classes and improve model accuracy.

MediBot: Drug Recommendation Chatbot
Learned to integrate NLP with databases for reliable healthcare applications.

- Designed a chatbot that recommends medications for diabetes, heart attack, tuberculosis, and cancer.
- Integrated LLaMA3 with Neo4j, packaged using Streamlit, Docker, and Scrapy to create a deployable app.

CERTIFICATES AND ACHIEVEMENTS

- Earned NPTEL Silver Medal in Ethical Hacking, showing strong foundations in security, networking, and systems.
- Participated in multiple Hackathons (SIP, Odoo Combat, others), building fast prototypes in software engineering, data science, and full-stack development.