KRISH PATEL

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SUMMARY

Graduate student in Computer Science at Arizona State University with hands-on experience in machine learning, data science, and software development. Skilled in Python, Java, and modern frameworks, with projects spanning deep learning for image analysis, LLM-based chatbots, and full-stack web systems. I like solving real problems with data and code, and I work best in teams that value curiosity and impact.

EDUCATION

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

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

TECHNICAL SKILLS

Concepts: Microservices, Data Science, Generative AI, Large Language Models, Hyperspectral Image Processing
Frameworks & Tools: React, Node.js, Spring, WebFlux, Docker, Git, Neo4j, Streamlit, Django, Scikit Learn, LangChain
Programming: Java, Python, C, C++, JavaScript, SQL, HTML/CSS, PHP, Go, Kotlin
Core CS: Data Structures, Algorithms, Operating Systems, Computer Networks, Big Data, AI/ML
Tools Productivity: MS Office Suite, LaTeX, Cisco Packet Tracer

PROFESSIONAL EXPERIENCE

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

- Prepared and optimized datasets for fine-tuning Large Language Models to improve domain-specific accuracy.
- Contributed to Generative AI projects by building prototypes and applying advanced ML techniques.
- Gained experience translating research ideas into working code with measurable improvements.

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

- Built a Neo4j-based medicine knowledge graph by web-crawling medical data.
- Developed an AI-powered chatbot using LLaMA3 to answer drug-related queries.
- Learned how to combine NLP models with structured databases for practical healthcare applications.

ACADEMIC PROJECTS

Hyperspectral Image Analysis for Fruit Ripeness Detection
Learned how to handle high-dimensional data and extract meaningful features for real-world classification problems.

- Built deep learning models to classify fruit ripeness using a 224-band hyperspectral dataset.
- Selected key spectral bands, applied data augmentation to fix imbalance, and documented results in LaTeX for a research paper submitted to Springer.

MediBot: Drug Recommendation Chatbot
Discovered how to combine LLMs with structured databases to deliver reliable

- Designed a healthcare chatbot that suggests medications for diabetes, heart attack, tuberculosis, and cancer.
- Integrated LLaMA3 for natural language understanding and Neo4j for medical knowledge storage. Packaged it with Streamlit, Docker, and Scrapy to create a usable app.

CERTIFICATES AND ACHIEVEMENTS

- Secured NPTEL Silver Medal in Ethical Hacking, demonstrating strong foundations in security and systems.
- Competed in multiple Hackathons (SIP, Odoo Combat, others), building rapid prototypes in data science and full-stack development.