

# SHREYAS RAJ

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## Education

<b>Koneru Lakshmaiah Education Foundation</b> Vijayawada, India	2022 - 2026
Bachelor of Technology - Computer Science and Engineering & Minor in Honours Through Innovation — CGPA: 8.59	
Relevant Courses: OOPS, OS, DSA, DBMS, Computer Networks, Artificial Intelligence, Parallel and Distributed Computing, Flutter Mobile Application Development	
<b>Holy Mission High School from CBSE Board</b> Samastipur, Bihar	2020 -2022
Higher Secondary School — Percentage : 71.5%	
Core Course : Physics , Chemistry , Mathematics,	
<b>Holy Mission High School from CBSE Board</b> Samastipur, Bihar	2019 -2020
Secondary School — Percentage : 90 %	

## Skills

**Languages :** Advance Java, JavaScript, Python, SQL  
**Frameworks :** React JS, Nodejs, Express Js, Docker, Kubernetes, Flutter  
**Tools :** Git, GitHub, Postman, Android, AWS, BitBucket, Jira, Figma, Frammer, API, N8N  
**Databases :** MongoDB, PostgreSQL, MySQL, Firebase , PineCone  
**Platforms :** Linux, Windows, Android Studio, VS Code, RHEL, Google Cloud, Jupyter & Colab Notebook

## Projects

<b>Intelligent Fashion Recommendation System :</b> ( <a href="#">Web Link</a> , <a href="#">Code Link</a> )	May 2025
<b>Tech Stack:</b> Python, OpenAI GPT-4, CLIP, BM25, Pinecone, Gradio, NumPy, PIL	
<ul style="list-style-type: none"><li>Built an intelligent fashion recommendation system that understands both <b>textual and visual queries</b>, improving accuracy and relevance of product search on e-commerce platforms.</li><li>Integrated <b>CLIP</b> to power visual similarity search &amp; combining <b>GPT-4</b> for query metadata extraction, enabling users to upload fashion images and receive semantically matched recommendations.</li><li>Combined <b>BM25 (sparse keyword search)</b> with <b>dense vector search (via CLIP embeddings)</b> using a tunable hybrid <math>\alpha</math>-weight, balancing precision with contextual understanding.</li><li>Indexed product vectors and metadata in <b>Pinecone</b>, enabling fast and scalable similarity search with real-time filters.</li><li>Developed a clean, interactive UI using <b>Gradio</b> for text/image search, hybrid tuning, and filter application.</li></ul>	
<b>Policy RAG – Intelligent Document Query Retrieval System:</b> ( <a href="#">Code Link</a> )	Aug 2025
<b>Tech Stack:</b> Python, FastAPI, PyMuPDF, DocArray InMemorySearch, OpenAI Embeddings, AsyncIO, Re-ranking	
<ul style="list-style-type: none"><li>Built an AI-powered document query system optimized for insurance policy and compliance documents, delivering precise, context-aware answers.</li><li>Implemented <b>semantic chunking</b> and in-memory vector storage (<b>DocArrayInMemorySearch</b>) for lightning-fast retrieval without external DB overhead.</li><li>Used <b>OpenAI</b> embeddings with re-ranking to send only top relevant chunks to the LLM, reducing costs and errors.</li><li>Delivered explainable results with confidence scores and source mapping for transparency.</li></ul>	

## Certifications

**ServiceNow Certified System Administrator**  
**Cisco CCNA: Enterprise Networking, Security, and Automation**  
**Cisco CCNA: Switching, Routing, and Wireless Essentials**  
**Cisco CyberOps Associate**  
**Cisco CCNA: Introduction to Networks**  
**Python Essentials 2**  
**Cognizant Artificial Intelligence Job Simulation**  
**Prompt Design in Vertex AI Skill Badge**  
**Fortinet Certified Associate Cybersecurity**

## Accomplishments

- Nominated for inauguration ceremony of BVR Mohan Reddy School of Innovation and Entrepreneurship(BVR SCIENT), IIT Hyderabad. - Oct 2023

- Our Venture DakshHire, participated in the AICTE Innovation, Design, and Entrepreneurship Bootcamp, stood out as one of the Top 5 Performing Teams among 100+ participating teams hosted at GITAM University, Vizag. Sept -2024.
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- Lead Nation Entrepreneurship Challenge 2025 organised by E-Cell IIT Bombay and spot – 5<sup>th</sup> position out of 3500 teams
- Qualified for the Semifinals of IIT Bombay Eureka! 2024, Asia’s largest business model competition, among the top 150 ideas out of 25,000 participants Dec 2024. Dec -2024