

Varshith Sai Pasupuleti

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PROFILE SUMMARY

Computer Science undergraduate specializing in AI/ML and full-stack development, with hands-on experience building deep learning models and production-grade web applications. Proficient in Python, React.js, MySQL, and REST APIs, with practical exposure to LLMs and prompt engineering, backed by strong fundamentals in OOP, DBMS, and Operating Systems. Seeking software engineering opportunities to design and build impactful, scalable products.

EDUCATION

KL University	2023–2027
B.Tech in Computer Science and Engineering	
Narayana Junior College	2021–2023
Intermediate (MPC)	
Ratnam High School	2020–2021
Secondary School Certificate (SSC)	

TECHNICAL SKILLS

Languages:	Python, SQL
AI / ML:	Machine Learning, Deep Learning, CNNs, LLMs, LangChain, RAG, Prompt Engineering
Web & APIs:	React.js, Spring Boot, Flask, REST APIs, HTML/CSS
Databases:	MySQL
Core Concepts:	OOP, DBMS, Operating Systems
Tools:	Git, GitHub, VS Code, PyCharm, Postman

PROJECTS

Inflow AI | *React.js, FastAPI, LangChain, LLMs, RAG*

- Developed a Retrieval-Augmented Generation (RAG) application using React, FastAPI, and Large Language Models (LLMs) to enable intelligent document-based question answering.
- Designed and implemented efficient retrieval and document processing pipelines, and optimized API workflows for accurate, context-aware responses and scalable performance.

SwiftShare | *React.js, Spring Boot, REST APIs, MySQL*

- Developed a secure file-sharing application using React and Spring Boot, enabling seamless file transfer with features such as PassShare, Nearby Share, recent shared files, and user settings.
- Designed and implemented RESTful APIs, optimized backend workflows, and built a responsive user interface to provide a fast and reliable sharing experience.

Brain Tumor Detection System | *Python, ResNet-50, Flask, React.js, MySQL*

- Built a full-stack web application for brain tumor classification using a React.js frontend for MRI image upload and result visualization connected to a Flask REST API backend.
- Implemented a fine-tuned ResNet-50 model using transfer learning on MRI datasets containing 3,200+ brain scan images.
- Achieved 93.8% accuracy, 92.4% precision.
- Integrated MySQL for storing prediction history and patient records with a responsive user interface.

CERTIFICATIONS

- Salesforce AI Associate Certification – Salesforce
- Linguaskill English Proficiency Certification – Cambridge University