

# **Yashwant K**

## **Machine Learning Enthusiast**

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## **Summary**

I'm a passionate Computer Science Engineer with a strong technical foundation, eager to solve real-world problems through innovative solutions and contribute to impactful projects that make a difference.

## **Education**

Bachelor of Engineering	<b>Sri Shakthi Institute of Engineering and Technology</b>
Sept 2023 - 2027	Computer Science and Engineering - 8.16
Higher Education	<b>Amrita Vidyalam, Nallampalayam - CBSE</b>
Jun 2022 - Jun 2023	84.3%
Primary Education	<b>Amrita Vidyalam, Nallampalayam - CBSE</b>
Jun 2020 - Mar 2021	92.1%

## **Skills**

Generative AI & LLMs	Machine Learning & Data Science	Vector Databases & Storage	Web & Cloud	Core Competencies
LangChain , RAG , Google ADK , Multi-Agent Systems	Scikit-learn, YOLO, Pandas, NumPy, Matplotlib, Seaborn, NLP	Pinecone (Vector DB), MongoDB, SQLite, SQL	Python, Google Cloud Platform (GCP), AsyncIO, Web Crawling (Crawl4AI).	Data Structures & Algorithms, Object-Oriented Programming , System Design.

## **Self-Freelance Project**

### **AI Powered Domain Decoder**

[github.com/Yashwant00CR7/Personalized-Suggestion-AI](https://github.com/Yashwant00CR7/Personalized-Suggestion-AI)

- Python, Streamlit, LangChain, Google Gemini, Pinecone, Sentence Transformers, Pandas
  - Designed and developed an AI-driven career mentorship platform that analyzes resumes to provide personalized role recommendations, skill gap assessments for students.
  - Built the interactive interface using **Streamlit** and architected the logic using **LangChain** and **Google Gemini**, integrating **Pinecone** as a vector database for semantic search and retrieval of company roles.
  - Implemented automated PDF parsing with **PyPDF** and data processing with **Pandas** to generate dynamic to-do lists, course suggestions.

### **AI Powered Package Conflict Support Agent**

[github.com/Yashwant00CR7/Package-Conflict-Resolver](https://github.com/Yashwant00CR7/Package-Conflict-Resolver)

- Python, Google Agent Development Kit (ADK), Google Gemini, Crawl4AI, SQLite, AsyncIO
  - Designed and developed an automated dependency resolution tool using **Google's Agent Development Kit (ADK)** to identify and fix package deprecations and version conflicts.
  - Engineered a **multi-agent architecture** (Researcher & CodeSurgeon) utilizing **Crawl4AI** for efficient batch documentation scraping and **Google Gemini 2.0** for analyzing breaking changes.
  - Implemented asynchronous session management with **SQLite** and **aiosqlite**, enabling real-time context preservation and generating precise requirements.txt fixes

## **Areas of Interest**

**Machine Learning Engineer**

**AI Engineer**

**AI Agent Developer**

## **Achievements**

**Coordinated 'Kalam - The Tech Fest'** - a major state-level event, where I managed the core planning operations and oversaw on-ground execution.

**Participated in the National Level Hackathon** conducted by KPR Institute, collaborating with a team to develop a technical solution under a strict 24-hour deadline

**Selected for the internal Smart India Hackathon (SIH)** after a competitive screening process, where we successfully pitched a novel project idea, demonstrating strong presentation skills and technical feasibility analysis.