

Srish Rachamalla ([Portfolio](#))

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SUMMARY

Experienced AI Engineer and tech innovator with a proven track record of designing and implementing AI solutions that drive business value and enhance user experiences. Successfully developed and deployed 7+ AI-powered systems that streamlined recruitment, auditing, and conversational interfaces for companies, improving efficiency by up to 40%. Skilled in leveraging NLP, machine learning, and multimodal AI to solve complex problems. Collaborative, adaptable, and committed to delivering high-quality results through cutting-edge technologies.

EXPERIENCE

[Spearsoft](#) 
Jr Data scientist

Hyderabad, India
JAN 2023 – Present

Projects:

EVA Platform – AI-Powered Business Solutions

Description:

Developed the EVA platform, an all-encompassing suite of **AI-powered tools** aimed at streamlining business processes such as recruitment, compliance auditing, and market analysis. The platform leverages cutting-edge machine learning models, scalable architecture, and custom-built solutions to enhance efficiency and decision-making.

Key Contributions:

- **Recruitment Assistant (EVA People):**
 - Designed an **AI-driven** recruitment assistant, REC AI, to score candidates based on skill matches and send personalized emails.
 - Leveraged **OpenAI** and **Hugging Face** models for resume parsing and skill extraction.
 - Built a scalable backend using **Python**, **Pandas**, and **NumPy** to handle large datasets of resumes and job descriptions efficiently.
- **Compliance Auditing Tool (EVA Process):**
 - Automated the auditing of compliance and operational documents through **fine-tuned LLMs**.
 - Implemented workflows using **Langchain** and **OCR** for seamless text extraction.
 - Managed and analysed compliance data using **SQL**, delivering actionable insights via detailed reports.

Healthmate – AI-Driven Healthcare Analysis Tool

Description:

Developed Healthmate, a cutting-edge **AI product** that **revolutionizes healthcare diagnostics** by analysing patient information and providing detailed reports. Healthmate predicts **probable diseases, recommends medication, and suggests lifestyle changes**, assisting hospitals and improving the accuracy of junior-level doctors. Validated through **tests conducted by medical professionals**, Healthmate delivers an exceptional diagnostic **accuracy of over 95%**, aiding doctors in understanding patient conditions before consultations.

Key Contributions:

- Engineered Healthmate using **CrewAI**, **Tavily**, and **Serper** to streamline healthcare data analysis and patient insights generation.
- Integrated **PubMed** and **ASR (Automatic Speech Recognition)** to access and process medical research and patient inputs effectively.
- Leveraged Large Language models, including **LLama 3.3 70B** and **GPT-4o**, to deliver high accuracy in disease prediction and report generation.

- Developed automated workflows using **n8n** for efficient data handling and integration across systems.
- Built and deployed the product using **Flask** and **OpenRouter API** for scalable backend architecture.

Mailmagnet – AI-Powered Email Automation Tool

Description:

Developed Mailmagnet, an innovative **AI-powered tool** designed to **automate personalized email campaigns for businesses**. Mailmagnet enables seamless email drafting by analysing the sender's services or products and the recipient company's website information. The tool employs advanced **webscraping** technologies to gather recipient company data, ensuring that the emails are tailored to demonstrate how the sender's offerings align with the recipient's business needs.

Key Contributions:

- Developed Mailmagnet, an AI-powered email automation tool that creates personalized email campaigns.
- Leveraged **OpenAI GPT-4o Mini**, **Langchain**, **Pydantic**, **Flask**, **Jinai** and **MongoDB Atlas** for robust backend development and dynamic content generation.
- Used **Pandas** for efficient data processing

Hobby Projects:

Legal AI Agent – Automated Legal Research and Document Analysis Using CrewAI

Description:

Legal_AI Crew is a robust AI-powered solution for automated legal research, writing, and editing. The system integrates multiple specialized agents to perform tasks collaboratively, delivering comprehensive and accurate legal documents.

Key Features:

- Multi-agent design for legal research, writing, and editing using state-of-the-art LLMs (**Ollama LLM**, **OpenAI**).
- Advanced search integration with **Tavily** for precise internet-based legal research.
- Task-specific workflows to ensure accuracy and high-quality outputs.

System Workflow:

- **Legal Research Analyst:** Conducts detailed research using **Tavily** Search and outputs research reports.
- **Legal Content Writer:** Drafts comprehensive legal documents with citations.
- **Legal Editor:** Reviews and validates legal documents for compliance.

GitHub Repository: [Legal_AI_Crew](#)

MarketMind – Multimodal Market Analysis Assistant

Description:

MarketMind is a **Python**-based solution designed to analyse a company's product and its market position relative to competitors. The tool fetches competitor data, summarizes insights, and provides actionable recommendations, offering a holistic view of market dynamics.

Key Features:

- Competitor analysis to evaluate market positioning.
- Product evaluation with detailed insights into strengths and weaknesses.
- Comprehensive reporting sent via **Gmail** in HTML format.

System Workflow:

- Gathers product and competitor data using **APIs** like **Groq** and **Serper**.
- Generates a detailed analysis report leveraging AI-driven models.
- Integrates email functionality to send reports in a structured HTML format.

GitHub Repository: [MarketMind](#)

Multimodal Conversational AI Assistant Description:

Description:

Developed a conversational assistant capable of understanding inputs through voice, text, and visual modalities.

Key Contributions:

- Integrated **LLaVA3**, **GPT-4 Vision**, and **OpenAI Whisper** for multimodal capabilities.
- Employed **SQL** to manage user interaction data and improve response accuracy.
- Tested models such as **GPT-4**, **LLaMA3**, and **Mistral** for optimal performance.

Additional Contributions:

- Conducted web scraping using **ScrapeGraph** and LLMs to extract and analyse data from websites.
- Designed a PDF Information Retrieval System with **RAG** and **Llama2 7B** for efficient document indexing and search.

EDUCATION

Sreenidhi Institute of Science and Technology

B-Tech in Computer Science

Hyderabad, India

2019 – 2023

- Graduated with first-class honors.
- Relevant Coursework: Machine Learning, Data Structures, Algorithms.
- Published two research papers in reputable journals.

COMPETITIONS & HACKATHONS

Google Hackathon – Developed the app **"Consume Nice."**

- Participated in a Google Hackathon and created the app **Consume Nice**, focused on improving consumer experiences through AI-driven insights and recommendations.
- [Check ConsumeNice](#)
- Deployed it in Render

Langflow AI Prompt Engineering Competition – **Winner.**

- Won the **Langflow** AI Prompt Engineering competition, demonstrating exceptional skills in prompt crafting, and utilizing AI models for innovative solutions.
- [Check Here](#)

ADDITIONAL

Technical Skills:

- Advanced in **LlamaIndex**, **Langchain**, **RAG**, **Groq API**, **Huggingface**, **Ollama**, **Crew AI**, **Gradio**, **Langflow**, **Streamlit**, **OpenAI API**, **OCR**, **ScrapeGraph**, **Huggingface Spaces**, **Render**, **Make.com**, **N8N**, **Zapier**

- Proficient in **Python, Machine Learning, NLP, Large Language Models (LLMs), Generative AI, Web Scraping, GitHub, Pandas, NumPy, Scikit-learn, Seaborn, Matplotlib, Data Version Control (DVC), Flask, SQL/NoSQL Databases, Twilio**
- Familiar with **Computer Vision (LLaVA3, GPT4 Vision, Paligemma, Florence), Audio Processing (Whisper, TextGen), Pytorch, NeMo**

Languages: Fluent in English, Hindi, and Telugu; Beginner in German.

Research Papers:

- Utilization of Chest X-rays for Pneumonia Prediction - [Advanced Engineering Sciences](#)
- Cyberbullying Detection using Machine Learning - [IJRAR](#)