Samridh Rastogi

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Education

Vellore Institute of Technology, Bhopal Oct 2022 - Jun 2026
Bachelors in Engineering in Computer Science. Bhopal, India
- Specialisation in Artificial Intelligence and machine learning
- **Cumulative GPA:** 8.09/10.0

The Indian Heights School Apr 2021 - May 2022
- Class XII - CBSE New Delhi, India
- **Percentage:** 78%

The Indian Heights School Apr 2019 - May 2020
- Class X - CBSE New Delhi, India
- **Percentage:** 92.6%

Experience

Sparrow Risk Management Pvt. Ltd. | Completion Certificate Dec 2024 - Jan 2025
Software development Intern Gurugram, Haryana, India
- Contributed to the backend development and system maintenance of IndustryOS, a patented enterprise software serving over 400 enterprise clients, ensuring robust performance and high availability.
- Integrated LangChain with pre-trained LLMs to automate code generation for IndustryOS software, enabling rapid prototyping and reducing development cycles by 25% and improving code maintainability.
- Streamlined backend processes, enhancing software reliability by 15% and improving scalability to support seamless integration of 5+ new features.
- Developed and optimised API endpoints, processing over 1,000 requests daily with less than 0.5% error rate.

Projects

Crazy Lazy – AI-Powered Codebase Generator | Github Jan 2025 - May 2025
- Developed an AI-powered system leveraging Large Language Models (LLMs) and custom templates to parse complex user input and generate modular frontend code (React, Tailwind CSS), reducing manual coding effort by an estimated 70%.
- Automated comprehensive file creation and directory structuring across 50+ projects, incorporating robust ZIP export functionality for streamlined project delivery.
- Tech Stack: React, Vite, GPT API, Handlebars, fs-extra, archiver, Tailwind CSS

PdfSage - Intelligent Document Q&A Chatbot | Github Dec 2024 - Jan 2025
- Engineered a Retrieval-Augmented Generation (RAG) system to efficiently extract and synthesise relevant information from multi-page documents, improving data retrieval accuracy by 25%.
- Utilised OpenAI's Chat API to generate precise and context-aware summaries from diverse document types, reducing manual review time by 40%.
- Integrated LangChain framework to bolster Large Language Model (LLM) capabilities, facilitating advanced document understanding and processing for over 20 document categories.
- Successfully processed and analyzed PDFs up to 500 pages in length, providing answers with an average response time of under 5 seconds.

Research Paper - Multi-Agent Architecture for Complex Problem-Solving using Large Language Models (LLM) | Author | [Link to Research Paper]
Feb 2024 - May 2024
- Conducted in-depth research on multi-agent architectures powered by Large Language Models (LLMs), analysing over 15 different model architectures to address complex challenges and optimise outcomes.
- Analyzed and evaluated diverse multi-agent model architectures and agentic applications within natural language processing (NLP), including BabyAGI, SuperAGI, and Hugging-GPT.

Courses

Privacy and Security in Online Social Media | [Link to Certificate] January 2024 - April 2024
NPTEL
Applied Machine Learning in Python | [Link to Certificate] December 2023 - January 2024
University of Michigan

Technical Skills

Programming Languages: Python, Java, C++, JavaScript | **Frontend:** HTML, Tailwind CSS, React | **Backend/Runtime:** Node.js, Express.js | **Databases:** MySQL, MongoDB | **Technologies/Framework:** MERN, Linux, GitHub, Large language Models(LLMs), Langchain, Gradio

Extracurricular

- State-Level Tennis Player – Competed at the state level, demonstrating exceptional discipline, perseverance, and teamwork under pressure.
- 3rd Place - AI-Based Hackathon – Secured third position in a competitive college hackathon by developing a AI based Football Prediction App showcasing advanced AI/ML application.
- Winner – District-Level Science Fair – Awarded first place and a cash prize of ₹10,000 for an innovative project, highlighting technical expertise and creativity
- Discipline Committee Member, Advitya Sports Fest (2024, 2025) – Contributed to the successful execution and orderly proceedings of a major collegiate sports festival, managing event logistics for 500+ attendees and ensuring seamless operations.