

# Samridh Rastogi

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## Education

<b>The Indian Heights School</b> High school	April 2020 - Feb. 2022 Dwarka, New Delhi
<b>Vellore Institute of Technology, Bhopal</b> Bachelors in Engineering in Computer Science.	Oct. 2022 - Ongoing Sehore, Madhya Pradesh

## Relevant Coursework

- Data Structure - Algorithm Analysis - Artificial Intelligence - System Programming - Computer Vision - Artificial Neural Network

## Experience

**Sparrow Risk Management Pvt. Ltd.** December 2024 - January 2025

### Software development Intern

- Collaborated on **IndustryOS**, a patented enterprise software, contributing to backend development and system maintenance to ensure robust performance.
- Designed and implemented **Large Language Models (LLMs)** using **LangChain**, enhancing the software's AI-driven functionalities.
- Streamlined backend processes to improve software reliability and scalability, supporting seamless integration of new features.
- Assisted in troubleshooting and optimising backend infrastructure for enhanced system efficiency.

## Projects

**Crazy Lazy – AI-Powered Codebase Generator** Jan 2025 – Present

- Built a system to parse user input and generate frontend code (React + Tailwind) using LLMs and custom templates.
- Automated file creation and directory structuring with ZIP export functionality.
- Focused on modular frontend generation with planned backend (Node.js + Express) support.
- Tech Stack: React, Vite, GPT API, Handlebars, fs-extra, archiver, Tailwind CSS

**Summarise & search engine** | Python, Langchain, Gradio.

January 2025

- Implemented Retrieval-Augmented Generation (RAG) to extract relevant data from documents efficiently.
- Leveraged ChatOpenAI for generating precise and context-aware summaries.
- Integrated LangChain to enhance LLM capabilities for advanced document processing.
- Developed an interactive user interface using Gradio for seamless user interaction.

**Research Paper - Multi-Agent Architecture for Complex Problem-Solving using Large Language Models (LLM)** | Author

February - May 2024

- Conducted extensive research on multi agent architecture powered by large language models focusing on Complex Problem Solving.
- Analysed various model architectures, and agentic applications with natural language processing such as BabyAGI, SuperAGI, Hugging-GPT.

## Courses

**Privacy and Security in Online Social Media** January - April 2024  
NPTEL

**Applied Machine Learning in Python** December 2023 - January 2024  
University of Michigan

**Intro to Machine Learning** February - March 2023  
Kaggle

## Technical Skills

**Languages** - Python, Java, C++, HTML, Tailwind CSS, Java Script, Node js, Express js, React, MySQL, MongoDB

**Developer tools** - VS Code, Google Cloud Platform

**Technologies/Framework** - Linux, GitHub, Large language Models(LLMs), Langchain, Gradio, MERN

## Extracurricular

- State-Level Tennis Player – Competed at the state level, showcasing discipline, perseverance, and teamwork.
- 3rd Place – AI-Based Hackathon – Secured third position in a competitive college hackathon, demonstrating strong AI/ML skills and problem-solving abilities.
- Winner – District-Level Science Fair – Awarded first place and a cash prize of ₹10,000 for an innovative project, highlighting technical expertise and creativity.
- Contributed as an active member of the discipline committee for Advitya Sports Fest in 2024 and 2025, demonstrating leadership and organizational skills to ensure smooth and orderly event proceedings.

## Additional Information

**Hobbies** - Tennis, Fitness, Travelling, Swimming, Learning

**Languages** - English, Hindi

