

Akshat Agarwal

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EDUCATION

BMS College of Engineering

Bachelor of Engineering in CSE(Data Science) (Current CGPA: 9.49/10)

Bengaluru, Karnataka

December 2022 - Present

Mount Litera Zee School

All India Senior School Certificate Examination(12th) (Percentage: 90.4)

Nagpur, Maharashtra

April 2021 - March 2022

Air Force Golden Jubilee Institute

High School Education(10th) (Percentage : 88.6)

Subroto Park, New Delhi

April 2019 - March 2020

PROJECTS

Hope Scan([Click here](#)) | *Kotlin, Python, TensorFlow, JavaScript, Firebase, Deep Learning, Dialogflow*

- Developed a one stop **mobile application** for **lung cancer detection and awareness**.
- Implemented **secure data storage and authentication** for user login and signup using **Firebase**.
- Integrated a **deep learning model** based on **CNN** to **predict** whether the uploaded **CT scan** shows lung cancer or not.
- Providing **real time health news** and **dynamic educational content** such as documentaries, recovery cases and lifestyle tips. Embedded a **Dialogflow** based agent for user **interaction and queries**, and added **location services** to show the nearby cancer **healthcare centers**.

Multi-Agent Research Assistant([Click here](#)) | *Python, CrewAI, LangChain, Ollama, SerpAPI, arXiv API*

- Developed a **multi-agent** system that generates research summaries. Designed **intelligent agents** to research topics, fetch sources and summarize key findings.
- Integrated **SerpAPI** for **web search** and **arXiv API** for **research paper fetching and analysis**.
- Implemented **modular pipeline along with dependency aware tasking** that enhance accuracy, extensibility and scalability.

NovaFlex Fitness([Click here](#)) | *Flask, JavaScript, SQL, CSS, HTML*

- Developed a website for fitness enthusiasts to **find gyms** and fitness centres nearby, access **virtual workouts**, and **shop for fitness products**.
- The website features user authentication and **membership options** including **gold and platinum plans** for **personalized workouts**, **diet plans** and **live workout** sessions.

Data Analysis on Indian Marriages ([Click here](#)) | *Python, Pandas, NumPy, Matplotlib*

- Performed Data Analysis on Census of India data set consisting of Age ranges and population by calculating gender ratios, maximum marriages and plotting graphs to analyse growth trends.

TECHNICAL SKILLS

Languages: Java, C, Python, JavaScript, SQL, R, Kotlin

Libraries and Frameworks: Flask, Pandas, NumPy, Matplotlib, FancyImpute, TensorFlow, Keras, Node.js, Express.js, React.js

Tools: PostgreSQL, MongoDB, Neo4j, Firebase, Vercel, Docker, Jenkins, Prometheus, Grafana, GitHub

Additional: Data Structures and Algorithms, Operating Systems, Database Management Systems, Computer Networks, Software Engineering, Data Science, Data Analytics, Machine Learning, Deep Learning, Cloud Computing, Robot Process and Automation, Object Oriented Programming, Big Data Analytics

POSITION OF RESPONSIBILITY

DSync Club, BMSCE

Secretary

Jan. 2024 - Present

- Successfully opened and lead the **first Data Science club** of the college. Organised **seminars** on Data Science, MS Excel, Python and different libraries used in Data Science.

PhaseShift, College Technical Fest

Department Coordinator and Event Coordinator

Nov. 2023 - Dec. 2024

- Curated a three-round **coding competition** and a **seminar** on Data Analytics. Set up and managed **department stall** to showcase the **best projects** of the department.

UTSAV, College Cultural Fest

Club Coordinator and Organising Committee Member

May 2023 - May 2024

- Led "**Divine Detectives**," a detective-themed event promoting teamwork and critical thinking. Coordinated "**Chrono Bid**," enhancing participants' time management and strategic bidding skills.