Yash Singh

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OBJECTIVE

Undergraduate student at Amity University proficient in Software Engineering and Data Science, seeking opportunities to further academic pursuits in graduate studies or contribute expertise to dynamic industry projects.

SKILLS

Software Development (Java , Python , DBMS , System Design), **Data Science** (Machine Learning , EDA , Streamlit , Web Scraping , RAG), **Web Development** (php , HTML , CSS) , **Developer Tools** (git , GitHub , VS Code , intelliJ) **Soft Skills** (Communication , Time Management , Adaptability , Emotional Intelligence)

EDUCATION

Amity University — Noida , UP , India

B.Tech [Computer Science & Engg.] — GPA: 8.01/10 [upto 5th sem] — August 2025

Sumermal Jain Public School — ND-110058 , India

CBSE [XII], Science [P.C.M.] — Score: 90% [90.2% Best-5] — May 2021

CBSE [X] — Score: 84.6% — May 2019

WORK EXPERIENCE

Open Health Systems Laboratory — Alameda , CA 94501 , USA

Data Science Intern — May 2024 – July 2024

- Contributed to the OHSL Breast Cancer Data Alliance (BCDA) team as a Data Science/Machine Learning Intern.
- Developed and implemented data scrapers for biomedical research, automating data collection from PubMed and PMC. Collaborated with the team to consolidate the gathered data into a unified database.
- Engineered a Retrieval-Augmented Generation (RAG) model using Falcon LLM to facilitate efficient evaluation of large datasets by biomedical researchers.

RESEARCH & PUBLICATIONS

SVM Based Risk Estimation in Heart Disease Prediction — Confluence 2024

Published in IEEE Xplore — *ieeexplore.ieee.org/document/10463271*

- Developed a heart disease prediction model utilizing various classification algorithms and conducted comprehensive comparisons.
- Presented the research at Amity University's International Conference, Confluence - 2024.

PROJECT WORK

workBench *Web Application* — May 2024 – August 2024

- Developed and deployed a PHP-based work listing and application platform on Hostinger.
- Integrated custom routing and database connectivity for efficient data management.
- Implemented robust authentication, authorization, and session management features to ensure secure user interactions.

Heart Disease Predictor *Machine Learning , Python API's , Java Development* — May 2023 – December 2023

- Evaluated various machine learning algorithms and achieved a testing accuracy of 98.04%.
- Leveraged insights and findings from my research work to extend the project's application.
- Integrated a Java GUI application with ML Python APIs to collaboratively predict heart disease risks, enhancing the research project.

EXTRACURRICULAR ACTIVITIES

Speak-Up World Foundation Volunteer — December 2023 – February 2024

- Led a volunteer team to educate financially and health-challenged individuals about government assistance programs, distribute sanitary products, and orchestrate social media and on-campus hygiene campaigns.

CERTIFICATIONS

Python For Data Science : IIT Madras , NPTEL , Score : 77% [ELITE BADGE]
Udemy Certifications : Software Architecture and Design of Modern Large Scale Systems , PHP from Scratch 2024
myCaptain Certifications : Python Programming Course , C Programming Course
Quantium : Software Engineering Job Simulation on Forage