Yash Singh

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OBJECTIVE

Seeking dynamic industry projects or graduate studies opportunities in Software Engineering and Data Science.

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, focusing on Data Science and Machine Learning.
- Developed and implemented data scrapers for biomedical research, automating data collection from PubMed and PMC, resulting in a 95% increase in data processing efficiency, measured by time saved compared to manual data collection.
- 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
- Developed a machine learning model with a testing accuracy of 98.04% for predicting heart disease risks.
- Integrated a Java GUI application with Python-based ML APIs to enhance collaborative predictions.
- Leveraged insights from research to improve model accuracy and application robustness.

EXTRACURRICULAR ACTIVITIES

Speak-Up World Foundation Volunteer   December 2023 − February 2024
- Led a volunteer team of 8 members to educate 70+ 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