Yashvir Singh

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EDUCATION

Bennett University   Gr. Noida, U.P
Bachelor of Technology   Expected May 2027

B. Tech in Computer Science; Specialization in Artificial Intelligence
Current CGPA : 8.58
Relevant Coursework: Machine Learning, Artificial Intelligence, Data Structures & Algorithms using C++; Operating Systems

COURSES & CERTIFICATIONS

- **Deep Learning/Machine Learning:** Deep Learning Specialization by Andrew Ng, White Hat jr. Certified Machine Learning Expert
- **DBMS:** Databases and SQL for Data Science with Python by IBM
- **Data Structures and Algorithms:** Data Structures by University of California San Diego
- **Programming Languages:** C++ Basics by Codio, Introduction to JAVA by LearnQuest

UNIVERSITY PROJECTS

**Fathom: A Robust Framework for Conversational Agents with Probabilistic
Reasoning for Consistent Persona Generation**   March 2025
- Innovating a hybrid conversational AI that challenges users' **beliefs, biases, and existential reasoning**
- Introduces **philosophical inconsistency detection** and dialectic questioning to guide deeper thought.
- Uses **knowledge graphs** to ground responses in historical philosophical doctrines.

Samvedna –Sign Language - To- English/Regional Languages Translation using AI and Machine Learning Aug 2024
- Designed and implemented a sentence level sign language interpreter that translates sign language to English as well 10 other Indian regional languages.
- Implemented using OpenCV, MediaPipe, Scikit-Learn
- Success Rate (Accuracy) of 96.4%
- Shortlisted for Smart India Hackathon 2024 (out of 400 teams)

Intrusion Detection System   March 2025
- Created and implemented an Intrusion Detection System
- Enables user to detect unauthorized intrusion into the network
- Achieved F1-score: 1, accuracy = 100%

OPEN-SOURCE CONTRIBUTIONS

- [Fathom](#)
- [Indian Sign Language Recognition](#)
- [Intrusion Detection System](#)

Hackathons and Competitions

Smart India Hackathon 2024   Gr. Noida, U.P
                                                                                            Aug 2024
- Shortlisted for SIH 2024 out of 400 participating teams
- Samvedna: Sign Language - To- English/Regional Languages Translation using AI and Machine Learning

Adobe x GeeksForGeeks GenSolve   Gr. Noida, U.P
                                                                                            Aug 2024
- Reached Top 5 percentile
- Qualified for Round 2

SKILLS

Core AI & Computational Reasoning
- Deep Learning (CNNs, RNNs/LSTMs, GRUs), Computer Vision, NLP
- Probabilistic & Statistical ML, Model Evaluation, Feature Engineering

Software & Data Systems
- **Programming Languages:** Python, C++, Java, SQL
- **Frameworks/Tools:** TensorFlow, Scikit-Learn, OpenCV, Pandas, NumPy, Matplotlib, Seaborn, Git, MediaPipe
- **Database & Backend:** MySQL, SQLite, REST APIs
- **Platforms:** Linux (WSL), Kaggle, Google Colab

Cross-Functional Skills
- Research Writing, Problem Solving, Team Collaboration, Presentation
- English, Hindi (Fluent)