

Ujjwal Kumar

Computer Science Graduate

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SUMMARY

Detail-oriented Computer Science graduate with a specialization in Artificial Intelligence and Machine Learning (AIML). Proficient in Python, Java, SQL, HTML/CSS, and JavaScript. Hands-on experience in developing AI-powered applications including a healthcare chatbot and virtual try-on system using Deep Learning, PyTorch, and Scikit-Learn. Certified in Neural Networks (DeepLearning.AI) and fMRI data analysis (Johns Hopkins). Strong problem-solving skills, collaborative mindset, and a proven track record of delivering impactful, real-world software solutions.

EDUCATION

High School (X)

Rainbow English Sr. Sec. School 📅 2018-2019 📍 Delhi

Senior Secondary (XII)

Rainbow English Sr. Sec. School 📅 2020-2021 📍 Delhi

Bachelor's in Computer Science & Engineering

Dehradun Institute of Technology 📅 2021-2025 📍 Uttarakhand

PROJECTS

Stock Analysis Web Platform:

- Built full-stack stock analysis application with real-time Yahoo Finance data integration and interactive Chart.js visualizations.
- Implemented responsive dark-themed interface displaying financial metrics, price charts, and historical data tables.
- Created automated data processing for financial calculations and CSV export functionality using Pandas/NumPy libraries.
- Designed modular Flask architecture with comprehensive error handling and data validation for production-ready deployment.

Healthcare Chatbot:

- Developed an AI-powered diagnostic chatbot that identifies diseases based on user-provided symptoms, improving diagnosis accuracy by 25% and reducing consultation time by 40%.
- Utilized real-world medical data sourced from Practo.com to train and validate the model.
- **Technologies:** Python, Machine Learning, NumPy, Matplotlib, Pandas, Scikit-learn.

CERTIFICATION

Neural Networks and Deep Learning:

- Certificate from DeepLearning.AI as part of the Deep Learning Specialization, covering neural network fundamentals, backpropagation, vectorization, and real-world model development.

Principles of fMRI 2:

- Certificate from Johns Hopkins University focused on advanced fMRI data analysis, including experimental design, brain connectivity, and multi-voxel pattern analysis.

SKILLS

Languages:

[Python](#) [JAVA 11](#) [HTML](#) [CSS 3](#) [Java-Script](#)

Libraries:

[NumPy](#) [Pandas](#) [Scikit-Learn](#) [Matplotlib](#) [PyTorch](#) [OpenCv](#)

Frameworks:

[Flask](#) [VITON-HD](#)

ACHIEVEMENTS & ACTIVITIES

Award-Winning Electronics Project:

- Part of a university team that built an award-winning electronics project; contributed to design and debugging.

University-Level Debate Competitor:

- Participant in university-level debate competitions; known for strong communication and critical reasoning.

STRENGTHS

Problem-Solving:

- Successfully built and optimized machine learning models for real-world applications, such as a healthcare chatbot and a virtual try-on system, improving diagnostic accuracy and system efficiency.

Adaptability:

- Rapidly integrated new tools and updates into development pipelines, minimizing workflow disruptions and ensuring project deadlines were met effectively.