GURVANSH GUPTA

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OBJECTIVE

Aspiring to pursue a master's degree in Computer Science with a specialization in Artificial Intelligence and Machine Learning to enhance skills in software engineering, machine learning, and AI-driven solutions while gaining expertise in data analysis and optimization. Later, aim to work as a software engineer in a leading tech company, contributing to developing innovative AI systems that address real-world challenges.

EDUCATION

Bachelor of Engineering, Computer Science, University Institute of Engineering and Technology (UIET) Panjab University,   CGPA 9.03/10   **June 2021- June 2025**

INTERNSHIPS

Business Technology Solutions Associate, ZS Associates   **Jan 2025-Present**

- Worked with the IC Ops team to build and optimize ETL pipelines for data extraction and reporting.
- Gained hands-on experience in SQL, Snowflake, and Oracle to resolve client data queries and generate reports.

Research Intern,Maivrik Labs, Panjab University   **June 2024-December 2024**

- Worked with Prof. Akashdeep Sharma to develop an efficient CNN model to detect anemia using medical images
- Designed, implemented and tested different network architectures, including DenseNet, ResNet and VGG, to find the most performance-efficient
- Used Model optimization techniques such as image augmentation, transfer learning, and hyperparameter tuning using TensorFlow and Keras in Python to get the most optimal results

Intern Servtronics Technologies, Gurugram   **April 2024-May 2024**

- Part of the tech team developing and designing features and desktop applications for the company using WPF, C#, MVVM and MySQL

Full-Stack Intern UIET, Panjab University   **August 2023-March 2024**

- Designed an advanced full-stack website for conducting the counselling process for the PULEET exam online
- Used technologies such as HTML, CSS, Javascript and React.js to develop the frontend for the teachers and the students

- Used Node.js and express.js to develop and implement the backend structure

RELEVANT PROJECTS
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Chess-llama   **November 2024-Present**
- Trained a 23M-parameter Llama-based decoder-only transformer model to play chess using 3 million high-quality games from the Lichess Elite Database
- Training was done on a single Nvidia L4 GPU for 18 hours, using the Google Cloud's Vertex AI platform, with the inputs in the UCI format.
- The model achieves an estimated Elo rating of 1400, and easily outperforms Skill-level 0 Stockfish.

Land Cover Classifier   **October 2024-November 2024**
- Developed a land cover classification web app that allows the user to select a square region on the map interface, which is then classified by a CNN model based on the ResNet-50 architecture and trained on the EuroSat dataset allowing a dynamic approach to analyze land usage
- Features an interactive front-end built using HTML, CSS, JavaScript, Leaflet.js and Open Aerial Map

TECHNICAL CERTIFICATIONS/ PAPERS/PUBLICATIONS
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- MITx: Introduction to Computer Science and Programming Using Python, edX   **Nov 2024**
- Neural Networks and Deep Learning, DeepLearning.ai   **Nov 2024**
- Convolutional Neural Networks, DeepLearning.ai   **Oct 2024**
- 100 Days of Code: The Complete Python Pro Bootcamp, Udemy   **May 2024**
- The Complete 2024 Web Development Bootcamp by Dr. Angela Yu, Udemy   **April 2024**

ACTIVITIES AND ACHIEVEMENTS
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- Won the ZS campus beats tech hackathon organized by ZS associates in May 2024 by securing an All-India rank (AIR) of 43 out of 993 teams and received a pre-placement offer
- Attended a leadership workshop by Mr. Rahul Vijh, the CEO of a leading intellectual property services company called Copperpod IP, UIET
- Qualified for the Graduate Aptitude Test in Engineering (GATE) 2024 exam in the pre-final year of the undergraduate program
- Secured fifth rank out of 368 participants (top 1.3%) in the Panjab University Migration Engineering Entrance Test (PUMEET), a state-level test organized by Panjab University
- Involved with a non-profit club named "MTRA - saving lives" to organize various events, which include an event in a government school in Chandigarh to encourage people to reduce plastic usage, blood donation camps in association with SSK Mahasangh charitable trust and various activities in inter college technical and cultural festivals, UIET
- Active member of Entrepreneurship Development Club (Dec 2021 - May 2023) , Programming Club (April 2022 - present) and the Sports Committee (March 2022 - May 2023) University Institute of Engineering and Technology (UIET) Panjab University