

Mehak Gulati

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EDUCATION

University of California, Davis

Davis, CA

Bachelor of Science in Computer Science

Expected Graduation: June 2027

RELEVANT COURSEWORKS: Python, Calculus, Discrete Math, Linear Algebra, Programming and problem solving (Use of basic UNIX tools), Software development and Object-Oriented programming in C++, Data Structures, Algorithms, & Programming, Algorithm Design & Analysis, Elementary Financial Accounting

EXPERIENCE

CS Tutor

April 2025 – Present

CS Tutoring at UC Davis

Davis, CA

- Provide academic support in Python programming and core data structures to undergraduate students through 1-on-1 and small group tutoring sessions.
- Guide students in understanding algorithms, recursion, and object-oriented programming by walking through assignments and real-time debugging.

Developer

April 2025 – Present

Machine Learning Student Network

Davis, CA

- Develop machine learning models (regression, classification, clustering) to analyze student lifestyle data and identify patterns influencing academic performance and stress.
- Build a personalized recommendation system and interactive dashboard using Streamlit to support students' time management and mental well-being.
- Hosted application using Heroku; integrated modular components for scalability and user customization.

Technical Development Intern

February 2025 – Present

Girls Who Code

Davis, CA

- Co-lead project initiatives alongside VPs to streamline execution, design training materials, and create scalable resources that empower technical project teams.
- Designing and facilitating technical workshops, delivering hands-on guidance and real-time troubleshooting to enhance team productivity and learning outcomes.

Software Development Intern

June 2024 – August 2024

Ernst & Young

Delhi, India

- Developed an AI chatbot with Langchain, RASA, Dialogflow; integrated into Slack via API + Flask
- Implemented text extraction, chunking & vector generation from PDFs, boosting data processing efficiency by 30%
- Collaborated with cross-functional teams, strengthening problem-solving, time management, and technical communication skills.

PROJECTS

First Year Seminar | AlphaFold2, Deep Learning, Genomic Data

September 2023 – December 2023

- Conducted research on Alzheimer's disease, utilizing deep learning tools like AlphaFold2 to predict protein structures and functions, applying AI techniques in biology and medicine.
- Gained hands-on experience interpreting scientific papers, visualizing genomic data, and presenting research findings to contribute to real-life studies.

Personal Finance Tracker | Python, Data Visualization, Financial Insights

January 2025 – Present

- Developed a Python-based application to help users manage expenses and savings, integrating data visualization tools for financial insights.
- Enhanced user decision-making by providing interactive visual reports and analytical insights into financial trends.

SKILLS

Languages: Python, R, Java, HTML/C++, SQL, Hindi & English

Tools: Git, Docker, Postman, Linux, Figma, VS Code, Tableau

Technologies: MongoDB, React, Node.js, Django

Machine Learning & Data Science: TensorFlow, Scikit-Learn, Seaborn, NLP, Pandas, PyTorch

CERTIFICATES

- AI for everyone from Coursera DeepLearning.AI
- Online Course from Coursera Data Science Orientation From IBM
- Online course from Coursera Data Science Maths Skills from Duke University
- Online course from Coursera Getting started with Tableau from Coursera project network