

PRANAV BHARTIYA

CSE student with strong math skills.
Expertise in ML and advanced algorithms.

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EDUCATION

University of California, Davis. [9/21 - 6/25].
B.S. Computer Science and Engineering.

SKILLS

Languages: C/C++, Python, Java, JavaScript, HTML/CSS, Go.
Technologies: React.JS, Node.JS, MongoDB, Tensorflow, OpenAI API, PyTorch, CUDA, GCP.
Tools: Git, Postman, Studio 3T, Colab, LangChain.

RELEVANT COURSEWORK

Data Structures and Algorithms, Artificial Intelligence, Computer Vision, Operating Systems, Computer Networks, Software Engineering, Algorithm Design and Analysis, Computer Architecture, Theory of Computation.

WORK EXPERIENCE

06/24 - 09/24 **ML/AI Intern** Hexagon ALI
• Built a **custom AI chatbot** with **GPT-3.5 Turbo**, grounded strictly in verified sources.
• Delivered a **PoC** to demonstrate chatbot capabilities, enhancing information retrieval accuracy.
• Integrated AI into a **pipe stress analysis tool**, improving automation efficiency for engineering calculations.
• Worked in **Agile Scrum** environment, participating in sprint planning, stand-ups, and retrospectives.

04/21 - 06/21 **Software Development Intern** ProtoTech Solutions
• Researched and tested **ML models for body landmark identification** using **TensorFlow**.
• Compared accuracy and performance of models like **OpenPose, PoseNet, and others**.
• Created reports and insights to support business and technical teams in selecting optimal ML models.

LEADERSHIP AND TEACHING EXPERIENCE

09/24 - Present **Founder and President of MLSN (College Club)** Machine Learning Student Network
• Lead a **50+ member club** focused on collaborative **AI/ML projects and emerging technologies**.
• Organized hands-on **workshops, cohorts, and lectures** to engage students in practical ML concepts.
• Built partnerships with other clubs to **expand student learning opportunities**.

02/25 - Present **Tech Director at GDSC (College Club)** Google Developer Student Club
• Mentored two cohort teams on ML projects: **eye disease detection** and **restaurant recommendation**.
• Led task planning and provided **technical support** during development, from ideation to deployment.

07/23 - 03/25 **AATC Maths and Physics Tutor** UC Davis
• Tutored **100+ students**, breaking down complex concepts in an interactive learning environment.
• Improved student performance with **personalized learning strategies** and engaging teaching methods.

PROJECTS

Google Project **Real Estate CRM App for Investors** github link
• **Mentored by Google SWEs**, developed a multi-platform app (Android, iOS, Web) for real estate investors.
• Allows users to **geo-tag potential sites** and provides tracking tools for property acquisition.
• Technologies used include TypeScript, Expo Tools (Frontend); Node.js, PostgreSQL, Google Maps API (Backend), GCP (Hosting).

Tensorflow **House Price Predictor ML Model** github link
• Created a **robust machine learning model** leveraging **Tensorflow framework** to predict house prices.
• Trained on a dataset of **over 21,000 entries**, predicting house prices with a remarkable **high accuracy**.
• Demonstrated the model's reliability and potential real-world applicability.

REST API **Task Management API** github link
• Built a **REST API service** with authentication, **MongoDB** for data storage, and **JWT** for security.
• Integrated **SendGrid** for email notifications and implemented full **CRUD operations** for task management.

C Programming **File/Folder Protection Software** github link
• Developed a **text-based utility** in **C** to hide or show files/folders by modifying their **DOS file attributes**.
• Used the `_chmod()` function to toggle **hidden, read-only**, and **system** attributes on Windows systems.
• Built an interactive CLI that offers user-friendly navigation, input validation, and help instructions.