NEERAJ V PATTANASHETTI

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Education

Master of Science | University of Illinois Chicago	Aug, 2025 – May, 2027
Major in Computer Science	Chicago, USA

Bachelor of Engineering | Visweswaraya Technological University	Dec, 2021 – Jul, 2025
Major in Computer Science **GPA: 8.90**	Bengaluru, India

Experience

Software Engineer, Intern \| KreedaLoka   Jul, 2023 – Dec, 2023
Bengaluru, India

ChessEra: A chess app used by Chess academies to improve their student's skill and also hosts Chess Tournaments.

➢ Integrated ChessEra's **Arena mode** using **Java(SERVER), C#, and Unity2D(CLIENT)**, enhancing user engagement and contributing significantly to the app's success, there by increasing the number of users.

Projects

FixMyIot - IoT Troubleshooter   Jan 2025

Built an AI-powered IoT troubleshooting platform using **React.js**, **Node.js**, and **Express**, enabling users to upload hardware images, describe issues, and receive step-by-step solutions via **OpenAI GPT-4o** integration. Implemented **Replit Auth** for secure login, responsive UI with **Tailwind CSS**, and in-memory data storage for query history.

Hospital Connect   Oct 2024

Worked on HospitalConnect, a React.js-based healthcare platform enabling users to locate nearby hospitals, access real-time resource availability and virtual consultations by integrating **Google Maps APIs and Firebase** for real- time chat and secure authentication.

Facial And Gesture Recognition for Sign Language   Jul, 2024

Developed a comprehensive system that can identify facial expressions and sign language motions using **Deep Learning Frameworks** , Yolov5, EfficientNet05,OpenCV and TensorFlow / Keras.

Panic Shield   Oct,2023

Developed a smartwatch app using Python (Numpy,SKLearn) and Swift with **91% accuracy** in our AI Model.

➢ The app helps in detecting panic attacks and responds promptly to provide users with timely support, sense of security and well-being.

Skills

Programming languages: C | Java | C# | Python | HTML | CSS | Javascript | ReactJS | NodeJS
AI & Machine learning: Deep Learning Frameworks | TensorFlow | OpenCV | YOLOv5 |CNN | Apache OpenNLP
Project Specific & Database: Unity2D & 3D | Google Maps API | DBMS | SQL | SQLite | Jira
Certifications: Java– Hackerrank (link) | Python- Hackerrank (link) | Problem solving - Hackerrank (link)
Languages: English | Kannada | Hindi (Full professional proficiency)

Publication and Appearances

Enhancing Early Detection of Pancreatic Cancer   Oct,2024

I was the first author of the paper *"Enhancing Early Detection of Pancreatic Cancer: A Machine Learning Approach with Explainable AI Insights,"* which was accepted for publication and presented at the IEEE CVMI Conference at IIIT Allahabad.

Heart Attack Prediction using Ensemble Techniques   Aug,2024

I was a co-author of the paper *"Exploring Computational Models and Ensemble Techniques for Precise Heart Attack Prediction: Leveraging Hyperparameter Tuning with LIME and SHAP Interpretation,"* which was accepted for publication and presented at the IEEE 4th Mysore Sub Section International Conference in August 2024.

Volunteering

Teaching & Student Mentorship   Oct,2023 – Dec ,2023

Responsibilities included:

➢ Taught **Mathematics** and **English** to 10th-grade students, helping them strengthen core concepts and prepare for board exams.
➢ Provided career guidance on various options and courses available after graduation.
➢ Conducted interactive sessions to build **communication skills**, **leadership qualities**, and **self-confidence**.