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

Teaching & Student Mentorship | SBS Public School Oct,2023 – Dec ,2023
Bengaluru, India

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**.

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

VirtualReality For Education Feb, 2024
Designed and developed VirtualReality classroom environment in **Unity3D**, **integrating AI technology** to simulate a responsive virtual teacher. Helps students learn better by making education interactive and tailored to their needs within a virtual classroom.

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.