

NEERAJ V PATTANASHETTI

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Education

Master of Science University of Illinois Chicago Major in Computer Science	Aug, 2025 – May, 2027 Chicago, USA
Bachelor of Engineering Visweswaraya Technological University Major in Computer Science GPA: 8.90	Dec, 2021 – Jul, 2025 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

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) <u>Python</u> - 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 “ <i>Enhancing Early Detection of Pancreatic Cancer: A Machine Learning Approach with Explainable AI Insights</i> ,” which was accepted for publication and presented at the IEEE CVMI Conference at IIT Allahabad.	
Heart Attack Prediction using Ensemble Techniques	Aug,2024
I was a co-author of the paper “ <i>Exploring Computational Models and Ensemble Techniques for Precise Heart Attack Prediction: Leveraging Hyperparameter Tuning with LIME and SHAP Interpretation</i> ,” 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 .	