

# ANUDEEP ERRABELLY

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## EDUCATION

### **Master of Science in Computer and Information Sciences (3.5/4)**

Jan 2022 - Dec 2023

Oklahoma State University Stillwater, United States of America.

### **Bachelor of Technology in electronics and communications Engg**

Jun 2015 – May 2019

Srinidhi institute of science & Technology JNTUH, India.

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## WORK EXPERIENCE

### **Associate Software developer**

Jun 2019 – Dec 2020

Accenture solutions, Hyderabad, India

- Engineered a comprehensive overhaul of Proview application's visual design and implemented an intuitive, user-friendly interface; decreased user error rates by 25%.
- Conducted weekly code reviews and implemented best practices across the team, enhanced code quality and team efficiency by 30%.
- Managed a process re-engineering project to improve and consolidate end-to-end service processes; restructured communication flow among 10 departments and cut down paperwork by 75%.
- Built a real-time monitoring system for a manufacturing client using C#.NET, which reduced equipment downtime by 50% and increase production efficiency by 35%.
- Streamlined the healthcare application maintenance process for a CAQH client; supervised a team of 5 in automating 30+ manual processes, saving 25 hours per week.

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## INTERNSHIPS.

Mar 2019 – May 2019

Engineered a novel phased array rectenna as part of a team focused on power transmission at the Indian Institute of Technology Chennai; refined the array, increasing receiving efficiency by 30%.

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## ACADEMIC PROJECTS

### **Brain Tumour detection System using python flask web application**

Jan 2023 – Mar 2023

- Created a user-friendly web interface for the brain tumor detection system using Flask and HTML/CSS which amplified technical capacity and user adoption by 40% in the first month.
- Created a deep learning model using VGG16 architecture with TensorFlow, which automated brain tumor detection from MRI scans with an accuracy of 88%; reduced diagnosis time by 50% which elevated positive detection rate by 20%.
- Architected, designed, and advanced a Flask web application that facilitated seamless communication between end-users and the model, which resulted in a 25% faster adoption rate by end-users.
- Streamlined version control process with Git by automating code review and testing, reducing manual errors. Containerized the application using Docker and deployed on Google Cloud Platform, making the application easily accessible to anyone with an internet connection.
- <https://mlproj-v5l34ovt4q-uc.a.run.app>

### **Online Hospital management system (CS 5423 principles of database design)**

Aug 2022 – Nov 2022

- Devised a patient booking portal web application for healthcare practitioners and patients, utilizing FLASK, Python and MySQL; optimized booking process, allowing patients to book appointments across hospitals and clinics with ease, resulting in a 30% increase in appointment bookings.

### **EEG Seizure Detection using time series epileptic data.**

Feb 2022 – April 2022

- Implemented Recurrent Neural Networks for EEG seizure detection, which led to a 15% increase in model accuracy, and acquired critical skills in data analysis, data visualization and machine learning model development.
- Spearheaded an innovative idea to leverage EEG signals for speech generation; trained a machine learning model to recognize mental loads associated with specific words, generating an audio output. Potential benefits for individuals in a vegetative state include enabling communication of thoughts and needs with ease.

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## TECHNICAL SKILLS

**Operating Systems:** Windows 7/8/10, Linux, Mac OS.

**Programming Languages:** Python, C, Java, JavaScript, MySQL, Data Science, Explainable AI

**Skills & Technologies :** TensorFlow, Keras, Matplotlib, Seaborn, Numpy, Pandas, PyGui, PyTorch, LIME, SHAP statistical analysis, Deep Neural Networks, Medical Image Analysis, Text Analysis (NLP)

**Development Tools:** Microsoft Suite (Word, Excel, Access), Microsoft Visual Studio, PyCharm.

**Additional Tools:** Git, GitHub, Neo4j Graph Databases, Hadoop, Spark ML, HBase.