Chebrolu Sai Prasanna Abhinav

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EDUCATION

2020-2024   **VELLORE INSTITUTE OF TECHNOLOGY**   *Vellore, IN*
*Bachelor of Technology, Major in Computer Science and Engineering; Cumulative GPA: **9.15/10***
- ***Awards***: Schneider Electric Scholarship.
- ***Leadership***: Member Secretary, Student Council; Placements Co-Ordinator; Photography Club (Co-Secretary)
- Software Engineering; Operating Systems; Algorithms; Artificial Intelligence; Database Systems.

2020   **FIITJEE JUNIOR COLLEGE**   *Vijayawada, IN*
Board of Intermediate Education – AP; Physics, Chemistry and Mathematics (PCM Stream)
- Cumulative GPA: **8.88/10.0.** – (98% Percentile – JEE Mains)

2018   **SRI CHAITANYA HIGH SCHOOL**   *Addanki, IN*
Board Of Secondary Education, Andhra Pradesh
- Cumulative GPA: **10.0/10.0.**

WORK EXPERIENCE

AMBIENT BASED SMART HOME WITH EMOTIONAL INTELLIGENCE   *Vellore, IN*
Developer, Intern
- Recognition of people's vocal and facial expressions with their presence of accuracy of 82%. Appliances can communicate back with their desired qualities. I analyzed people's emotions & transmitted data to central unit gateway.
- Developed algorithms and performed data analysis on reviews to identify and present most relevant information on the improved course accuracy by 50%

LG CLOUD BASED STREAMING PLATFORM   *Vellore, IN*
Executioner (with-in college)
- Results in scalability, reliability, and elasticity. Managed data with webRTC - a centralized transform, (Kubernetes engine, other microservices, deployment strategies are utilized). Using multi-cloud environment helps me with cost-optimization with 35% and low latency.
- Engineered a web application that enabled users to receive customized recommendations based on individual interests and performance; boosted user engagement by 40%

VELLORE INSTITUTE OF TECHNOLOGY   *Vellore, IN*
Developer
- Upgraded web portal from scratch with user experience and interface, reduces reading time with 40% and increases cut-point with 60%. shifted to cloud.
- Designed and developed a scalable full-stack web application using the MERN stack to support 2,000+ users; reduced page load time by 50% and Streamlined certificate generator and transmission by creating and implementing a Python-based script; improved results by 40%, delivered using parallel algorithms to compute faster.

UNIVERSITY PROJECTS

MULTI ROUND PRIVACY AND SECURE AGGREGATION USING FEDERATED LEARNING – PROJECT | SOURCE CODE   *April 2023*
Mentored by Prof. Manikandan N, Prof. Ruby D.
- Capturing noise from IoT devices and predicting if there is any maintenance needed or not using Machine Learning. Sound signals will be transmitted to the central server that helps in reducing the computing time (FL) utilizes AWS.
- Handled TensorFlow for justification. Test accuracy is 76.92%
- Researched and demonstrated modulation dots by 80%.

PERSONALIZED HOME SCREEN FOR GOOGLE CHROME | SOURCE CODE   *March 2023*

DEEP LEARNING BASED AUTOMATED IMAGE TRANSLATION FOR ANALYSIS AND DETECTION OF MALWARES IN REAL TIME SYSTEMS – PROJECT | SOURCE CODE   *August 2022*

Planned with by Prof. Manikandan N, Prof. Ruby D.
- Detecting virus image transmissions by the DL and Image Processing techniques and stop injecting into systems.
- Contributed to Image segmentation and morphological analysis techniques, detection of viruses using DL algorithms. This reduces 74.5% of injections.

GONAV: AI BASED TRAVEL PLANNER AND GUIDER *June 2022*

OTHER

- **Achievements:** Winner at LG Hacks for Ambient based smart home systems
- **Languages**: English (Fluent), Telugu (native), Hindi (intermediate), French (Foreign Language)
- **Coding Skills**: Python, Java, C/C++, MATLAB, Full Stack development.
- **Analytics Skills**: R Programming, SocNet-V, Excel, Rawgraphs, Flourish Studio, ZOHO Analytics, Power-BI.
- **Technical Skills**: Cloud Computing (Amazon Web Services, Microsoft Azure, Google Cloud Platform), Information Security Analyzing, Salesforce, SAP, DevOps, Agile Computing.
- **Certifications**:
  AWS Solution Architect & IBM-AI Professional (Ongoing), AWS Cloud Practitioner, Microsoft Azure Fundamentals (AZ-900), Google Digital Marketing, Big Data – UC San Diego, MATLAB (Fundamentals, Onramp, Programming Techniques), Salesforce Administrator, Hackerrank (Competitive Solving Ques., Python)
- **Volunteering**: Volunteered most of the college events and lead the Riviera 2023 – Annual Sports and Cultural fest of Vellore Institute of Technology.

PATENTS

BANDWIDTH BASED AUDIO AND VIDEO SPLITTING *Sept 2022 – Filed Patent under Indian Patent*

- Splitting of audio and video as different instances in the cloud
- Transmitting audio when bandwidth is low by disabling video streaming.

RESEARCH PAPERS

SOFTWARE DEFECT DETECTION AND PREVENTION IN AGILE BASED PROCESS USING ARTIFICIAL LEARNING METHODS
Guided by Prof. Manikandan N, Prof. Ruby D, Prof. Gayathri A. *October 2022*

DEEP LEARNING BASED AUTOMATED IMAGE TRANSLATION FOR ANALYSIS AND DETECTION OF MALWARES IN REAL TIME SYSTEMS *August 2022*
Stimulated with Prof. Manikandan N, Prof. Ruby D.

ABNORMAL FEATURE EXTRACTION FROM EEG OF SCHIZOPHRENIA PERSON WITH SWT *February 2022*
Handled with Prof. Gopinath M.P., Prof. Aarthy SL.