

Chebrolu Sai Prasanna Abhinav

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ABOUT

I am a fourth-year student with a passion for technology, simplifying experiences using a creative, pragmatic, and iterative approach to problem solving and the drive for success. As a continuous learner with a growth mindset, always look for opportunities to participate in hackathons and overcome challenges to help the community we live in. Technical stack revolving around the backgrounds of Cloud Architecture and Development, Cyber/Info Security, Artificial Intelligence & Machine Learning, Data Analyst, Graphic Design, and Full Stack Development (MERN Stack). Great team player and self-critical to constantly improve myself and the organization. Currently, looking to build my skills in the domain of cloud-based application development.

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)
 - Upgrading the college portal from on-demand to cloud system with entire architecture from scratch.
 - Software Engineering; Operating Systems; Algorithms; Artificial Intelligence; Database Systems.
- 2018-2020 **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**; Best student awardee, NTSE Scholar, SIMO (All India 108th rank), INTSO
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WORK EXPERIENCE

- AMBIENT BASED SMART HOME WITH EMOTIONAL INTELLIGENCE** Vellore, IN
*Worked as **Student Developer**; Guided by Prof. Manikandan N, Prof. Vanmathi C, Prof. Sasikumar*
- Winner at LG Hacks.
 - 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 emotion & transmit 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
*Managed as **Executioner**; Headed by Prof. Manikandan N, Prof. Vanmathi C, Prof. Siva Rama Krishna*
- This project results in scalability, MCU, reliability, and elasticity. I 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%, latency.
 - Engineered a web application that enabled students to receive customized course recommendations based on individual interests and academic performance; boosted user engagement by 40%
- VELLORE INSTITUTE OF TECHNOLOGY** Vellore, IN
*Improved as **Developer***
- Employed as a full-stack developer at VIT's Career Development Centre, upgraded web portal from scratch that helps with user experience and great interface, reduces reading time with 40% and increases cut-point with 60%.
 - Deployed Different in-detail statistics Extensive use of HTML, CSS, and JS Consists of all information about Placement & Training. Coded multiple certificates generator and mailer, that helps in creating and sending to respective holder within seconds delivered using parallel algorithms to compute faster.
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PATENTS

BANDWIDTH BASED AUDIO AND VIDEO SPLITTING

07/22 – Filed Patent under Indian Patent

- Splitting of audio and video as different instances in the cloud
- Transmitting only 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

Results-driven with Prof. Manikandan N, Prof. Ruby D.

August 2022

ABNORMAL FEATURE EXTRACTION FROM EEG OF SCHIZOPHRENIA PERSON WITH SWT

Handled with Prof. Gopinath M.P., Prof. Aarthi SL.

February 2022

UNIVERSITY PROJECTS

MULTI ROUND PRIVACY AND SECURE AGGREGATION USING FEDERATED LEARNING

Mentored by Prof. Manikandan N, Prof. Ruby D.

April 2023

- Capturing noise from IoT devices and predicting if there is any maintenance needed or not using Machine Learning. Sound signals will be transmitted to central server that helps in reducing the computing time (FL)
- Handled TensorFlow for justification. Test accuracy is 76.92%

DEEP LEARNING BASED AUTOMATED IMAGE TRANSLATION FOR ANALYSIS AND DETECTION OF MALWARES IN REAL TIME SYSTEMS

Trained by Prof. Manikandan N, Prof. Ruby D.

August 2022

- 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.

OTHER

- **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, Hacker rank (Problem Solving, Python)
- **Volunteering:** Volunteered most of the college events and lead the Riviera 2023 – Annual Sports and Cultural fest of Vellore Institute of Technology.