

Abhinand Ganesh

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Education

College of Engineering Guindy, Anna University
Bachelors of Technology (BTech), Information Technology

July 2019 - Present
CGPA : 9.34/10

Experience

Citi (Citicorp Services India Pvt Ltd)

May 2022 – July 2022
Chennai, India

Technology Summer Analyst – Intern

- Worked closely with team leads in the Production Support Unit of the Institutional Clients Group (ICG)
- Worked with SELCOPY and Job Control Language to write scripts for batch processing in z/OS via the IBM Host-On-Demand Software
- Automated monitoring tasks for failure reporting of processes in the production servers
- Received a return offer to join the company as a full-time employee because of exemplary performance

National Informatics Centre, Government of India

Oct 2021 – Jan 2022
Chennai, India

Intern

- Developed an Android Application for data collection of farmers in Andhra Pradesh via SDLC steps that also implements Deep Learning for crop disease identification
- Worked closely with higher officials to create industry-standard modules and implemented security features like Salting and Hashing to prevent Man-in-The-Middle attacks.
- Tested private APIs for the software using Postman

Research Experience

- CONFERENCE PAPER: **Abhinand G** & Poonam B N – “*An Efficient Stacking Ensemble Technique for Success Prediction of Indian Ventures*” - Presented in the **International Conference on Data Science, Agents and Artificial Intelligence 2022** (ICDSAAI 2022), in association with IEEE Madras Chapter and Computer Society of India (*Proceedings to be published in IEEE Xplore*)
- CONFERENCE PAPER: **Abhinand G** & Roshni Balasubramanian – “*A Novel Geofence-Oriented Approach to Activity Alerts and Notifications for Dementia Patients*” - Presented in the **International Conference on Advanced Communications and Machine Intelligence 2022** (*Proceedings to be published in SPRINGER series - Studies in Autonomic, Data-driven and Industrial Computing*)
- CONFERENCE PAPER: **Abhinand G**, Dr. R. Geetha Ramani, Roshni Balasubramanian, Aruna Srikanmakshi R – “*Application of Phonocardiogram and Electrocardiogram Signal Features in Cardiovascular Abnormality Recognition*” - Presented in the **IFIP 7th International Conference on Computer, Communication and Signal Processing (ICCCSP 2023)** (*Proceedings to be published in SPRINGER series - IFIP Advances in Information and Communication Technology*)
- JOURNAL PAPER: **Abhinand G** & Dr V Uma Maheswari (2022) - published a paper titled “*Corroboration of Twitter Sentiment Analysis and Event Analysis of Indian Budget 2022 on the Bitcoin Market*”, DOI: 10.22214/ijraset.2022.43533
- JOURNAL PAPER: **Abhinand G** & Roshni Balasubramanian (2022) - published a paper titled “*Study on the Development and Implementation of Ubiquitous Bots for the Discord Interface*”, DOI: 10.32628/CSEIT228137

Projects

- **Hybrid ECG-PCG Feature Extraction Strategy in Cardiac Abnormality Diagnosis:** The project involves predicting the presence of cardiac abnormality from both ECG and PCG signals. Using the PhysioNet/CinC dataset, cardiac abnormality was predicted using the three – PCG-only features, ECG-only features and a hybrid ECG-PCG feature set. After LOESS filtering and Z-Score Normalization of the matrix, it was observed that the hybrid set outperforms the former feature sets and existing models with a Sensitivity of 96.7 % using an AdaBoost Ensemble Classifier.
- **Text-Based Automated Video Analysing System through Transcripts:** A web application that inputs .mp4 files from the end-user to generate transcripts of the video via the AssemblyAI API; and makes use of a trained Logistic Regression Classifier with 81.4% accuracy in order to predict the overall sentiment of the transcript after TF-IDF Vectorization. The application also analyses the Polarity and Sensitivity of the transcript using a Lexicon-Based Natural Language Processing model. It uses MongoDB for the backend database to store the data.
- **"Kanmani" - Discord Bot:** A discord chatbot made using Python via the Discord API that issues notifications to the server members that remind them to drink water, stretch, and rest their eyes from their screens. Anonymous venting feature implemented for users to rant in a safe manner. Kanmani also can fetch memes, motivational quotes, coding tips, and productivity tips from Reddit using REST API calls. The bot is "verified" by Discord as of 9th February 2022

Positions of Responsibility

- **Deputy Tech Director, Guindy Times:** Monitored the website and app of the official University Magazine constantly, Developed a Discord bot for the official Discord Server of the club and deployed the website on AWS
- **Student Volunteer, National Service Scheme (NSS):** Organised campus-cleaning drives and also an orphanage visit for a team of around 60 students and planned various activities, and organized newspaper collection activities to raise money.

Skills

Tech: C, C++, Java, Python, SQL, JavaScript, PHP

Miscellaneous: AWS, Git, Shell, JCL, Jenkins, Docker, MATLAB