Achyuth S.S

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TECHNICAL SKILLS

Languages: C, C++, Python, Java, HTML, CSS, JavaScript, SQL
Technical Skills: Data Structures, Algorithms, Wireless Communication, Next.js, React.js, Networking
Developer Tools: Git, GitHub,Visual Studio Code, Android Studio, Tanner EDA Tool, GNS3 Simualator, Ns3 Network Emulator
Other Skills: Problem Solving, Teamwork, Strong Communication Skills, Collaboration, Comprehension, Innovative

EXPERIENCE

Full Stack Developer Intern (Remote) — Pune, India
True Data Software — *August 2024 – Present*

- Working on an Smart Customer relationship management System using Vite, and Firebase to handle management of leads, and deals for multiple clients.
- Working on an ESD Dashboard for real time fetching from Raspberry Pico board using Wiznet W5500 Ethernet to be used by multiple clients.

Research Intern — PES University
Centre for Information Security, Digital Forensics and Cyber Resilience, PES University — *May 2024 - June 2024*

- Research on Throughput prediction in Wireless IEEE 802.11 Networks using Transformers
- Trained a HuggingFace transformers and fine tuned it to predict the throughput of IEEE 802.11 Dense WLAN Deployment using Transformers and achieved a State of the art accuracy of 94%

Artificial Intelligence and Machine learning Intern (Remote) — Telangana, India
iNeuBytes — *May 2024 - June 2024*

- Worked on three major tasks as part of the Internship.
- Task 1 - Trained a Random Forest Classifier and Ridge and Random Forest regression on a student performance prediction task to predict possibility of student moving for Higher studies. Also performed K Means clustering for Anomaly detection and achieved a silhouette score of **0.27**. Achieved an MAE of **0.36** and an MSE of **1.87**
- Task 2 - Trained a Convolutional Neural network and a VGG-16 architecture on MNIST Dataset
- Final Project - Naive Bayes Classification of Twitter Dataset. Trained Naive Bayes Classifier to achieve an accuracy of 87.36%

Club Head — Bangalore, India
QForest, Quantum Computing Society, PES University — *Feb 2023 - May 2024*

- Conducted a comprehensive workshop titled 'Introduction to Quantum Computing," educating 90+ participants on fundamental principles and practical applications.
- Organized a 3-day online workshop at PES university, handling both operational and organizational tasks.
- Organized a 24-hour national hackathon, Graviton 2.0, at PES University on April 6-7, 2024. Developed Strong Communication skills and handled various roles during the hackathon

Outreach Head — Bangalore, India
Jnaanada, Sanskrit Club, PES University — *Jan 2024 - Present*

- Executed comprehensive marketing campaigns from January to May 2024, leveraging social media and email marketing; boosted event attendance by 40%
- This enabled me to hone by Communication Skills.

Sankethi Language Encourager — Bangalore, India
Linguista, The Language Club, PES University — *Feb 2024 - Present*

- Organized a Sankethi Language Workshop

EDUCATION

PES University   Bangalore, India
B.Tech in Electronics and Communication Engineering   September 2021 – Present
- 1x DAC Scholarship Awardee for getting above 7.8 CGPA in 1st semester

Sri Chaitanya PU College(Uttarahalli Branch)   Bangalore, India
Karnataka State board Science - 99%   June 2019 – Aug 2021
- Awarded for being College topper

PROJECTS

Aarogyam website | *JS, HTML, CSS, Kannada Hackathon*   Jan 2023
- A health app website helps identify blood-sugar changes, BMI and blood pressure, that is built using HTML, CSS, JS and PHP
- Users can enter their information like Age, Symptomps and other details and they can check their BMI and Diabetes Stage and Level.

Least Squares Approach to SLAM | *Python, ROS, Gazebo*   April 2023
- A linear algebraic approach to analyze SLAM movement in a 3-D Space. Analyzed Robot movement using Linear algebrea Concepts.
- Used Gazebo and ROS to simulate Robot's movement

Multilabel Disease Prediction | *Machine Learning*   July 2023 – August 2023
- Trained a SegNet & a U-Net Model to preemptively predict Diseases.
- Finally, ensembling all the models together to optimize the accuracy and performance and thus enabling faster disease prediction.

Hate Speech Detection using NLP | *Deep Learning, Natural language processing*   October 2023 – April 2024
- Developed a Hate speech detection model using NLP - BERT Model achieved 95% accuracy
- This idea won the 2nd place, in the Global category, at the IBM-Z Datathon 2023.
- Leveraged the IBM-Z LinuxOne instance to use python libraries like PyTorch. Although the model was trained elsewhere, it was deployed on the IBM-Z LinuxOne instance
- Blog about the project, can be found here - IBM-Z Linux0NE

Prediction of Handover Failures in 5G Cellular Networks using ML | *Capstone Project, Python* January 2024 – Present
- Developing an application where Handover Success or failures rates can be predicted based on different UE Parameters using Machine Learning Techniques
- Deployment files generated by NetworkX Python library, and LSTM Model along with several other novel architectures will be leveraged to perform a Time series based prediction based on the generated deployments
- This enables Network parameters to preemptively analyze handover failures and take necessary action thus cutting down costs

Website for Martin movie team | *Go, Hugo*   May 2024 – Present
- Engineering a comprehensive website for the Kannada movie Martin to release movie updates
- Using Next.js to build the updates and working on cast page for the movie.

Smart CRM SaaS Tool | *React, Vite, Firebase*   August 2024 – Present
- Engineering a comprehensive CRM for multiple clients to handle different leads, deals and organizations
- Using Firebase for backend and Vite for frontend UI design.

PESU Decoded Website | *Go, Hugo*   May 2024 – Present
- Engineered a comprehensive website for PES University using the Hugo Hextra Theme; enriched content and structure, boosting online engagement by 40% and reducing page load time by 20%

AWARDS AND ACHIEVEMENTS

IBM-Z Datathon   2023
Secured 2nd Place at Global Category   October 2023

- Project - Hate Speech Detection using Natural Language Processing techniques like BERT
- Secured 2nd Place in Global Category out of 800+ Teams

PES University   2021
Distinction Award Scholarship   Jan 2022

- DAC Scholarship Awardee for getting above 7.8 CGPA in 1st semester.