# Achyuth S S

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## EXPERIENCE

**True Data Software** — Pune, India
*Full Stack Developer Intern (Remote)* — *August 2024 – October 2024*
- Worked a user-friendly CRM system designed for lead and deal management, which reduced administrative tasks by 40 hours per month by automating reporting processes and improving user experience for sales teams.
- Worked on an ESD Dashboard for real time fetching from Raspberry Pico board using Wiznet W5500 Ethernet to be used by multiple clients.

**iNeuBytes** — Telangana, India
*AIML Intern (Remote)* — *May 2024 – June 2024*
- Worked on 3 Major tasks during 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%

**ISFCR , PES University** — Bangalore, India
*Research Trainee* — *May 2024 – June 2024*
- Researched 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 TabTransformers and achieved a State of the art accuracy of 94%

## EDUCATION

**PES University** — Bangalore, India
*Bachelor of Technology in Electronic & Communication Engineering, GPA - 7.31/10.00* — *2021 – Present*

**Sri Chaitanya PU Collegel** — Bangalore, India
*State PCMB (Physics, Chemistry, Mathematics, Biology) - 99%* — *2018 – 2021*

## PROJECTS

**Prediction of Handover performance in 5G Cellular Networks**

An approach to pre-emptive time series prediction of cellular handover failues on a synthetic dataset using LSTM and other models.

**Multilabel Disease prediction using Ensemble Modelling**

Trained a SegNet & a U-Net Model alongside VGG-16, CNN models 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 - Deployed on IBM-Z](#)   IBM-Z Datathon 2023
- An approach to sentiment detection on twitter tweets.
- Deployed the model on IBM-Z Linux0ne Instance.
- [A blog regarding this has been written here](#)

### [Web based escalation system](#)   Nokia
- Working on a web based system to escalate service provider and peer issues to third party vendors.
- Used Next JS as frontend and backend, and Microsoft Azure AD for authentication.

### [Smart CRM SaaS Tool](#)   True Data Software
- Engineered a comprehensive CRM for multiple clients to handle different leads, deals and organizations
- Used Express JS backend and React for frontend, also used Firebase for Authentication.

### [Smart Ryde Application](#)
- Working on a full stack Expo application that will be similar to Uber for booking cabs, rentals and more
- Using React Native for the frontend, Stripe for payments and Google Maps APIs for maps and other features.

### [Pharma RAG ChatBot](#)
- Developed an agent-based pharmaceutical knowledge chatbot utilizing the LLama 3.8B model, enhancing information retrieval and user interaction within the pharmaceutical domain.
- Integrated advanced frameworks including LangChain and Hugging Face to implement Retrieval-Augmented Generation (RAG) techniques, improving the chatbot's ability to provide accurate and contextually relevant responses.

## Awards and Scholarships

- **Second Place** out of 800+ teams at **IBM-Z Datathon 2023**
- **DAC Scholarship Award** from **PES University** for securing CGPA of 7.5+ in 1st semester.

## Skills

**Languages**: Python, Java, C, C++, MySQL
**ML/Stats**: PyTorch, Tensorflow, HuggingFace, NLTK, pandas, NumPy, scikit-learn, seaborn, matplotlib
**Artificial Intelligence Techniques**: Deep Learning, Few-Shot Learning, Language Models, Natural Language Processing, Graph ML
**Development Frameworks/Tools**: Git, VS Code, Flask, Next.js, React.js, Linux Systems, IBM-Z, GNS3 Simulator, React Native

## Services and Clubs Experience

### Club Head at QForest   Bangalore, India
*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 level 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 at Jnaanada, Sanskrit Club   Bangalore, India
*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%

### Sankethi Head at Linguista, Language Club   Bangalore, India
*PES University*   *Feb 2024 – Present*
- Organized and tutored several learners to teach Sankethi language.