ROHITH DHARAVATHU

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OBJECTIVE

Distinctive AI graduate and dynamic Software Engineer with expertise in AI innovation, cloud migration, and software development. Published three research papers, developed impactful projects like covid-19 detection, and contributed to tools like Concerto. Passionate about delivering transformative tech solutions that blend creativity and technology.

EDUCATION

Amrita Vishwa Vidyapeetham, Coimbatore **Aug 2020 – Jul 2024**
B. Tech in Computer Science and Engineering (Artificial Intelligence) **CGPA: 7.54 /10**
Relevant Coursework: AI in Natural Language Processing, AI in Speech Processing, Deep Learning for Signal & Image Processing, Deep Reinforcement Learning, Python for Machine Learning, Big Data Analytics

SKILLS

Programming Languages Python (Advanced), SQL (Advanced), React (Intermediate),Java (Intermediate).
Frameworks/Libraries Transformers, PyTorch, TensorFlow, LangChain
Specializations Generative AI (Large Language Models), Natural Language Processing, Computer Vision

EXPERIENCE

TRAINZ HOLDING PVT LTD. **Sep 2024 -Present**
Software Product Engineer
Assessed **on-premises servers** and **databases** for **cloud migration** readiness and identified **migration challenges**, providing tailored **solutions**. Collaborated with teams to optimize **workflows** and create effective **migration strategies**. Ensured **seamless data transfer** and supported clients throughout the **migration lifecycle**. Documented processes to maintain **consistency** and facilitate **knowledge sharing**.

GRID CSP TECHNOLOGIES. **Jan 2024 – Apr 2024**
Intern
Developed a **computer vision solution** for **real-time card detection** from live feeds and automated **image processing tasks**, significantly improving workflow efficiency. Contributed to resolving challenges that enhanced **system performance**.

ENTERPRISE SOFTLABS PVT LTD **Jan 2023 – Mar 2023**
Intern
Worked on the prediction of **drug effectiveness** in **rheumatoid arthritis** patients, utilizing **data pre-processing** techniques and a **binary classification algorithm**. Gained experience in **machine learning** applications.

PUBLICATIONS

An Empirical Comparative Study of Machine Learning Algorithms for Telugu News Classification, *ICACECS-2023, Springer, doi:* 10.2991/978-94-6463-314-6_12 **Oct 2023**
Comparative Analysis of Speech Synthesis Models Performance Analysis and Evaluation, SSCI-2023, *Scopus Springer, doi:* 10.1109/ICECA58529.2023.10395349 **Sep 2023**
Detection of Mental illness from social media Text ,
IEEE IIT MANDI - ICCCNT-2024, doi: 10.1109/ICICT58315.2023.10725304 **Jul 2024**

PROJECTS

Temperature Forecasting Using DMD and Deep Learning Methods **Oct 2022 - Dec 2023**
Developed a model for temperature forecasting using **Dynamic Mode Decomposition (DMD)** and deep learning methods like **LSTM** and **RNN**. Leveraged **Python** to build and optimize models, achieving accurate short-term and long-term temperature predictions. This project demonstrated expertise in **time-series analysis**, **machine learning**, and **predictive modelling**.

Covid-19 Detection Using Multitype Classical Feature Selection **Dec 2022 - Jan 2022**
Designed an ensemble model to detect COVID-19 from Chest-CT scan images by integrating techniques such as **Discrete Cosine Transform (DCT)**, **Discrete Wavelet Transform (DWT)**, **Directional Local Binary Patterns (DRLBP)**, and **Max Covariance Features**. Implemented **Particle Swarm Optimization (PSO)** for feature selection and utilized the **Support Vector Data Description (SVDD)** classifier for prediction. Tools used included **MATLAB** and **Python**, achieving an accuracy of 82%. This project highlighted proficiency in **image processing**, **feature selection**, and **classification techniques**.