Manish Chowdary Kalluri

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Education

Rowan University — *Glassboro, NJ*
M.S in Computer Science — *Expected Graduation : Dec 2026*

SRM University — *Andhra Pradesh, INDIA*
B.tech in Computer Science with specialization in Big Data Analytics — *Aug 2020 - May 2024*

Work Experience

SRM University — *Andhra Pradesh, INDIA*
Intern - Outreach, Data Mining and Analysis — *May 2022 - Nov 2022*

- Worked in the Department of International Relations at SRM University.
- Played a Pivoting role in establishing agreements and MOUs with Malaysian Universities while keeping tab on group advancements.
- Collaborated with the Director of the IR department to create PowerBI reports that have a 12 percent comprehension rate for data gathered through web scraping.

Research Experience

- **"A System and a Method for Heartbeat Classification for Arrhythmia Detection"** Indian Patent Application *No. 202441052541, Published June 2024* Co-inventor of a patent, focused on the detection of cardiac arrhythmias using heartbeat classification techniques. Published in the Indian Patent Journal.
- **"System and Method for Sentiment Analysis of Social Media Data Regarding a Communicable Disease Vaccination"** Indian Patent Application No. 202441050948, Published June 2024 Co-inventor of a patent, that leverages natural language processing to analyze public sentiment on social media platforms related to vaccination during Covid-19 outbreak. Published in the Indian Patent Journal.

Projects

Arrhythmia detection | *Python, HTML, CSS, JavaScript*

- **Developed an ECG-based deep learning model** using image classification to detect arrhythmia from a Custom dataset of 15,341 images, achieving 89% test accuracy and 99% training accuracy.
- **Implemented both sequential and functional CNN architectures** with TensorFlow for noise-free, high-quality image preprocessing and classification of heartbeat types.
- **Demonstrated the potential of AI-powered diagnostic tools** for early arrhythmia detection and cardiovascular risk classification, contributing to intelligent decision support systems in healthcare.

Resume Classification | *Python, pandas, Tensorflow*

- We prepared our dataset by updating the preexisting kaggle dataset of 1500 resumes from different industries.
- We used regular expressions to clean the RAW data as that helps to simplify text data before applying the Machine Learning model.
- I've used Logistic Regression to evaluate Accuracy, Precision due to it's Interpretability and Simplicity

Skills

Proficient : HTML, CSS, Javascript, PHP, Node.js, Python, Pandas, Pytorch, Tensorflow, Git and Github.
Familiar with : Java, C, React, Salesforce, Hive and R.