

## ARJUN REDDY MALI

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### Skills

**Languages:** Python, Java, C, C++, JavaScript

**WebDev:** HTML/CSS, React.js, PHP, Flask, Django, Mysql, MongoDB

**Data Science:** PySpark, Scikit-Learn, Tensorflow, Spacy

**Additional:** Version control (Git), AWS, Block Chain, Hadoop, Excel

### Work Experience

#### Data Engineer at Cognizant

- Implemented a Hadoop-based Data Lake that processed and stored more than 1.5PB of data in 8 months
- Designed a Hadoop-based Data Warehouse that integrated data from various sources, including web logs, applications, and databases
- Utilized Hive and Pig scripts to create more than 200 ETL processes
- Analyzed data using R and Python to produce actionable insights
- Built a Hadoop-based data pipeline that allowed for real-time data processing and analysis
- Optimized Hadoop performance by configuring the cluster, tuning job execution, and monitoring cluster health.

#### Software Dev Intern at Triculin Tech

- Worked on 2 Java web applications with JSP, JDBC and Servlets, which improved the workflow efficiency by 15%.
- Designed and implemented 3 RESTful web services to support mobile applications, resulting
- Created XML and XSLT transformations for data integration from 5 different databases, resulting in improved data accuracy by 10%.
- Successfully debugged and fixed 7 existing Java applications, reducing the turnaround time for each application by 23%.
- Optimized SQL queries for 10 database tables, resulting in an average improvement of 30% in query execution time.
- Automated 10 daily tasks using shell scripts, resulting in a 30% reduction in manual effort.

### Personal Projects

- **Emotion based music recommendation web-app (05/2021 - 07/2021):** Uses convolutional Neural Networks (CNN) to identify and detect emotions based on a model trained using a huge face dataset from google API, we then used a recommendation algorithm to recommend music based on the user's emotion and his precious preferences. We were able to achieve an accuracy of 76.4%.
- **Twitter Hate speech Detection (02/2021 - 04/2021):** Retrieved tweets from twitter API and used them to train a machine learning model by converting the tweets into vectors and removing all the stop words, we were able to create a pipeline that took an input and judged for hate speech with an accuracy of 86.3% using RandomForest.
- **Blockchain and a Mineable crypto-currency (08/2021-09/2021):** Created a flask-based API that can mine crypto currency on a self-made block chain. Each block on the block chain is hashed using SHA256 hashing algorithm and is then connected to the next block and the previous block by storing their hashed values like a doubly linked list. The results were visualized using Postman.
- **NLP yelp review classifier (05/2021-05/2021):** Trained a model using yelp review data obtained from Kaggle which helped determine if a review left by a user is positive or negative. Here I used word2vec to vectorize the reviews and was able to achieve an accuracy of 87.6% using LinearSVC algorithm.

### Education

- **Bachelor of Technology (B.Tech.) in Information Technology**  
Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad, TL, India. CGPA-8.93/10  
July 2018-May 2022
- **Master of Science (M.Sc.) in Computer Science**  
University of Texas at Dallas, Richardson, TX, USA CGPA-3.8/4.0  
August 2022-Present

### Publications

- **Robust Big Data Analytics for Electricity Price Forecasting using the Smart Grid (07/2021 -11/2021)**
- **A Novel Analysis for Web Service to Generate Intelligent Previews of Web Links (03/2021 -12/2021)**

### Organizations

- **AAC (Advanced Academic Center):** It is a college club which teaches and helps students stay in touch with the latest technologies. I oversaw teaching computer vision to students interested in the vast field of computer vision.
- **Dignity Drive Foundation:** A non-profit organization which provides support for women in rural areas, and I headed a team of several volunteers to remote villages to engage with people and promote sanitary habits. I must say that these experiences allowed me to become the more empathetic and grounded person that I am today.