Rahul Maddula

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SUMMARY

Ingenious Computer Science graduate looking to pursue a career in Data engineering with ML/Al, Software Engineering, and have 100% commitment to work with the ability to adopt new skills.

EDUCATION

ILLINOIS INSTITUTE OF TECHNOLOGY, CHICAGO, IL   Expected May 2023
Master of Computer Science

RMK ENGINEERING COLLEGE, CHENNAI,INDIA   August 2017 - June 2021
Bachelor of Engineering, Computer Science and Engineering

SKILLS

PROGRAMMING LANGUAGES: Python(Rookie) , SQL(Intermediate) , Java(Intermediate) ,C(Intermediate), R(Intermediate).
BIG DATA TOOLS: Hadoop, MapReduce, PySpark, Pig, HDFS, Hive, Kafka, Lambda, Glue, Athena, Data Factory, ETL tools.
WEB DEVELOPMENT: HTML, CSS, JavaScript.
PYTHON LIBRARIES: Scikit-learn, TensorFlow, Keras, Pandas, NumPy, Matplotlib, Seaborn, SQLAlchemy, BeautifulSoup.
CLOUD PLATFORMS: AWS, Azure, Google Cloud Platform.
DATABASES: PostgreSQL, MySQl, MongoDB(NoSQL).
VISUALIZATION: Tableau, Power BI, QuickSight.

PUBLICATIONS

Unique Attendance system with group marking of the student's presence with a time saving approach using mobile FaceNet algorithm for face recognition (Turkish Online Journal of Qualitative Inquiry).

EXPERIENCE

Machine Learning Intern   April 2021 - July 2021
Indian Servers   India
- Coordinated to build highly scalable and robust ML models to get the best efficiency of up to 90%.
- Conducted experiments using Python's scikit-learn package to assess how well various machine learning models perform on particular datasets to improve the model's accuracy by 15%.
- Built the pipelines to ingest datasets from different sources ease the manual process by 10 % and deployed predictive models to get the valuable results.
- Collaborated to construct innovative dashboards with tableau to help the business people to understand the data.

PROJECTS

Data Analysis of Youtube Data(AWS Lambda, S3, Glue, Athena, QuickSight, Python)   August 2022 - November 2022
Personal Project   Chicago,Illinois
- Illustrated an ETL pipeline for preprocessing the dataset and catalyzed the ETL job to solve the issues with JSON files.
- Engineered an ETL pipeline to optimize the standard querying of the data by at least 50%.
- Analyzed and visualized the processed data with cutting-edge dashboards using QuickSight.

Prediction of Tuberculosis (Python, NumPy, Pandas, Scikit-learn, tensorflow)   February 2022 - May 2022
Illinois Institute of Technology   Chicago,Illinois
- Formulated 5 architectures (combination of Traditional CNN, VGG16 and, random forest) to obtain an accuracy of 97%.
- Generated different metrics and developed confusion matrices to compare the 5 models to achieve the best results.
- Improvised VGG16 and CNN models using TensorFlow and Scikit-learn to accomplish the accuracy of 97%.

Data Analysis of Stack Overflow Data (PySpark, Python, Hive, Pig, GCP)   February 2022 - May 2022
Illinois Institute of Technology   Chicago, Illinois
- Analysed and estimated efficiency of over 20+ Business KPIs with Hive, Pig, and Spark technologies.
- Designed data pipeline to load data from Google's BigQuery to cloud storage reducing the manual efforts by at least 70%.
- Incorporated text classification models employed with Logistic regression and random forests to attain an accuracy of 88%.

Group Attendance System (Python, React, Scikit-learn, Tensorflow, OpenCV, SMTP)   January 2021 - June 2021
RMK Engineering College   Chennai,TN/India
- Redesigned the existing dataset utilizing Data Augmentation to increase the capacity up to 90%.
- Developed an automatic attendance system facilitated by Machine Learning (CNN) and computer vision architecture with 92% of accuracy.