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AJAY RANGANATH

DATA SCIENTIST & DATA ENGINEER

SUMMARY

Data Science and Data Engineering professional with 7 years of rich hands-on experience in data engineering, data analysis, predictive modelling, data mining, ETL, python and SQL.

WORK EXPERIENCE

RUTGERS UNIVERSITY - Neuroscience Department
Research Assistant - Data Science
New Jersey, Fall 2018

Implemented MariaDB database system to classify pre-recorded data which eliminated legacy process of storing data through Matlab files.

Developed neural network and pattern recognition algorithms establishing behavioral patterns in neuronal activity and visual cortex.

HINDSIGHT TECHNOLOGY SOLUTIONS

Machine Learning Intern
New York, Summer 2018

Collaborated with lead Data Scientist in developing NLP models to identify entities and we achieved 80% accuracy which helped the team to improve the core Smart-Tagging product.

Designed and developed databases and ETL solutions on AWS (EC2, S3, Lambda) which led to rich Wikipedia data for smart tagged entities.

TESCO PLC

Senior Data Analyst
Bangalore & London, Sep 2010 - Aug 2017

Developed ETL models and python scripts to automate master data flow from online transaction processing system (OLTP) into online analytical processing system (OLAP) with 100% data flow accuracy.

Developed complex SQL queries and refactored existing automation scripts to improve the efficiency of the ETL models which helped double the performance of batch jobs.

Performed large scale data analysis to aid management with actionable insights and reports which influenced the direction of the business during peak trading periods.

Led the team of five to form an in-house development team which catered to the data analysis, data insights and ETL requirements.

Collaborated with Datawarehouse team to work on POC (proof of concept) to migrate Tesco Direct ETL and BI platform onto Hadoop.

PROJECTS

Alconic - Diabetic Retinopathy Detection (TensorFlow, AWS, Python)

Evaluation of digital color images in classifying diabetic retinopathy symptoms. Developed using transfer learning by retraining Google's InceptionV4 model on AWS that achieved the accuracy of 83% and validation accuracy of 78% than previous work.

EDUCATION

RUTGERS UNIVERSITY
Master of IT and Analytics
Class of 2019
GPA - 3.7

VISVESVARAYA TECH. UNIVERSITY, INDIA
Bachelor of Electrical Engineering
Class of 2010

RECOGNITION

Rutgers Hackathon Winner
Fall 2018

Tesco Star of the Moment
Mar 2017

Tesco Exceptional Ratings
Sep 2013, Mar 2013, Sep 2012

Tesco Values Award
Mar 2012

SKILLS

Programming

Python
SQL, PL/SQL
Unix
C++
R

Databases

Oracle
MS Sql Server
Teradata
MySQL
Postgres

ML Libraries

TensorFlow
PyTorch
OpenCV
Scikit-Learn

Hadoop

Hive
Pig
Spark
HDFS

Other Tools

DataStage
Tableau
JIRA
GitHub

Others

AWS
AGILE
TDD
CI/CD

COURSEWORK

Probability Theory
Intro to Data Science
Python Methodologies
Applied Artificial Intelligence
Statistics and Machine Learning
Data Structures and Algorithms

CERTIFICATIONS

Machine Learning (coursera)
Deep Learning – deeplearning.ai (coursera)