AJAY RANGANATH

SOFTWARE & DATA ENGINEERING

CONTACT

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PROFILE

Seven years of experience at top-tier e-commerce institution focusing on data pipelines, big data analysis, data warehousing and predictive analytics.

EDUCATION

JAN 2019 RUTGERS UNIVERSITY [NJ]

Master of IT and Analytics

JUN 2010

VISVESVARAYA TECH. UNIVERSITY [INDIA]

Bachelor of Electrical Engineering

TECHNICAL SKILLS

- Python (NumPy, Pandas, Scikit-Learn, TensorFlow, PyTorch)
- SQL (MySQL, Postgres, Oracle, Teradata, MS-SQL)
- No-SQL (MongoDB)
- PySpark
- ETL (Airflow, DataStage)
- Data Visualization (Tableau, Seaborn, Matplotlib, Bokeh)
- Machine Learning (Regression, Classification, ANN, PCA, SVM)
- AWS (EC2, S3, RDS, Lambda)
- Unix, R

MANAGEMENT SKILLS

- Agile & Test-Driven Development
- JIRA, Git, CI/CD, Jenkins

EXPERIENCE

JUL 2019 - PRESENT | NYC

Data Engineer | 2 Degrees Investing Initiative

A non-profit think tank working to align the financial sector with 2°C climate goals.

- Implemented Airflow to replace the legacy ETL process into simpler DAG workflows which led to the efficient data flow from SQL and Flat Files sources into postgres db on Azure.
- Developed python data validation scripts to compare multiple databases for the data accuracy across the system.
- Created database triggers to capture the change in data in tables for future auditing purposes.
- Adopting agile development process in implementing the new system which would eventually streamline the ETL process.

SEP 2018 - JUN 2019 | NJ

Research Assistant - Data Science | Rutgers Neuroscience Lab

- Developed neural network and pattern recognition algorithms establishing behavioral patterns between neuronal activity and visual cortex.
- Implemented MariaDB database system to record neuronal activity which eliminated the legacy process of storing data through Matlab files.

SUMMER 2018 | NYC

Machine Learning Intern | Hindsight Technology Solutions

- 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 which led to rich Wikipedia data for smart tagged entities.

SEP 2010 - AUG 2017 | BANGALORE & LONDON

Senior Software Engineer | Tesco PLC

Leadership

 Led the team of five developers building data pipelines and perform data analysis that measurably and efficiently improved ETL platform.

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CERTIFICATIONS

- Python for Data Science and Machine Learning (Udemy)
- Tableau 10 for Data Science (Udemy)
- Hands-On Course to Master Apache Airflow (Udemy – in progress)
- Machine Learning (coursera in progress)

EXPERIENCE (CONT)

Tesco PLC:

- Interfaced with stakeholders on business requirements and valuable product feedback post project delivery.
- Established a mentoring program to support new employees for six weeks, cutting annual turnover by 40%.

Engineering and Analysis

- Developed ETL models and Python scripts to automate master data flow from OLTP into OLAP systems with 100% data flow accuracy.
- Performed large scale data analysis to aid management with actionable insights and reports which influenced the direction of the business during peak trading periods.
- Developed complex SQL queries and refactored existing automation scripts to improve the efficiency of ETL models which helped double the performance of batch jobs.
- Collaborated with the Data Warehouse team to work on a proof of concept to migrate Tesco's ETL and BI platform onto Hadoop.
- Participated in hyper care and sanity checks for monthly production deployments of tesco.com.