

AJAY RANGANATH

DATA SCIENCE | DATA ENGINEERING

CONTACT

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PROFILE

Accomplished Data Scientist & Engineer with seven years' of experience in e-commerce. Helping teams build efficient data pipelines and predictive modeling.

EDUCATION

2018
RUTGERS UNIVERSITY [NJ]
Master of IT and Analytics

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)
- Hadoop (Hive, Pig, PySpark)
- ETL (Scripting, DataStage)
- Data Visualization (Tableau, Seaborn, Matplotlib, Bokeh)
- Machine Learning (Regression, Classification, ANN, PCA, SVM)
- AWS (EC2, S3, RDS, Lambda)
- Unix, R, C++
- Statistics and Probability

MANAGEMENT SKILLS

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

EXPERIENCE

FALL 2018 | 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 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 Data Analyst | Tesco PLC

Leadership

- **Led the team of five** developers to develop data pipelines and perform data analysis that measurably and efficiently improved ETL platform.
- **Interfaced with stakeholders** on business requirements and valuable product feedback.
- **Established mentoring program** to support new employees for six weeks, cutting annual turnover 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 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.