

Nirbhay Tandon

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TECHNICAL SKILLS

Languages: Java, Python, JavaScript, Groovy, GraphQL, SQL

Frameworks: TensorFlow, Pandas, Rasa, NumPy, Scikit-Learn, Matplotlib, Spring Boot, Jest, Enzyme, React

Additional Skills: Natural Language Processing, Exploratory Data Analysis, Hypothesis Testing, Machine Learning, Scrum, Agile, CI/CD, DevOps, Jenkins, Elastic Search

EXPERIENCE

Software Engineering Associate

Jan. 2019 – Present

J. P. Morgan Chase & Co.

Glasgow, United Kingdom

- Developed a full-stack web application using React, MaterialUI, Java and GraphQL for external ans well as internal clients to read, share, manage and interact with Research published by JP Morgan Analysts
- Introduced the team to Jenkins & BitBucket based CI/CD SDLC, Scrum methodologies & Kanban
- Successfully migrated legacy applications over to the company proprietary CI/CD tool & enabled adoption for 16 other applications

Technology Analyst

Aug. 2018 – Jan. 2019

J. P. Morgan Chase & Co.

Glasgow, United Kingdom

- Complete SDLC for a ReactJS & Java based web application that replaced a legacy application
- Developed a standalone Spring Boot application for reporting client positions for one of the largest Prime Brokerage clients for JP Morgan
- Worked as *Client-Lead* in a 13 member team. We used Angular & Microsoft Azure to build and deploy a highly scalable web applications for one of our member charities
- Contributed towards improving the overall test coverage for Spring based web application and brought it up to 96% for unit test coverage using JUnit. I also worked on Selenium test cases for fully automated UI testing

Systems Programmer

Dec. 2015 – Mar. 2016

Vox Sciences

London, United Kingdom

- I was responsible for managing the existing application. I also developed the new deep-learning based speech recognition using C++

THESES & PERSONAL PROJECTS

Deep Learning for Speech Recognition | Master's Thesis | *Python, NumPy, SciPy*

May. 2015 – Dec. 2015

- Developed a Speech Recognition system using Long Short-Term Memory architecture of recurrent neural networks
- The project achieved 99.93% accuracy on a 40-memory cell network

Viterbi Part Of Speech Tagger | *Python, NumPy, SciPy, NLTK* | [Github Link](#)

Oct. 2020

- Implemented vanilla Viterbi Part of Speech tagger & assessed its accuracy(75%)
- Modified Viterbi algorithm using transition probability and emission probability
- Tested the developed models on sample data and achieved an 22.81% higher accuracy with a modified Viterbi Algorithm(92.28%)
- Correctly identified and tagged words missed by the vanilla Viterbi tagger

Lead Score Case Study | *Python, NumPy, SciPy* | [Github Link](#)

Jun. 2020

- Performed extensive Exploratory Data Analysis
- Developed various Logistic Regression models. The optimal model had 80% Accuracy, Precision & Recall
- Generated a 'Lead Score' value. Higher the lead score, higher the chances of conversion for the company

Telecom Churn Case Study | *Python, NumPy, SciPy, EDA* | [Github Link](#)

Aug. 2020

- Performed extensive Exploratory Data Analysis, worked with derived columns & data inference techniques
- Identified key factors that cause a customer to churn
- Developed multiple models using ADABOOST, XGBoost, Random Forest & Logistic Regression with PCA. The best model was a PCA & XGBoost Classifier after Hyper-parameter tuning that achieved 80% sensitivity & 90% recall
- Proposed business strategies & improvement

- Implemented extensive Exploratory Data Analysis
- Implemented Silhouette & Elbow analysis to decide cluster sizes
- Used K-Means clustering with Hierarchical Clustering techniques to determine which countries need the most assistance
- Identified key features for the NGO to focus on & top 5 countries to target immediately

EDUCATION

Liverpool John Moore's University

Dec. 2019 – Jul. 2021

*Master of Science in Data Science***King's College London**

Aug. 2014 – Apr. 2016

*Master of Science in Robotics***J.S.S. Academy of Technical Education**

Aug. 2010 – Jun. 2014

Bachelor of Technology in Information Technology