HITESH RAJATH

CONTACT

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EDUCATION

Postgrad: MSc in Data Science, 2022-2023
University: University of Essex Essex, U.K
Relevant Coursework: Data Science and Decision Making, Machine Learning, Text Analytics, Data Visualization, Modelling Experimental Data, Python programming, Applied statistics, Databases and data processing with SQL.

Undergrad: B.E in Information Science and Engineering, 2012-2016
University: Atria Institute of Technology Bengaluru, India

PROJECTS

Gold Price Forecasting using ensemble models:

- Developed an ensemble modeling approach to accurately forecast gold prices. As ensembles leverage diversity across models to reduce bias and variance, they potentially provide more accurate and stable forecasts than individual models.
- Curated a dataset using 20 years of historical data on gold, silver, oil, dollar index, and macroeconomic factors. Performed exploratory analysis - data cleaning, data visualization, and feature engineering.
- Implemented Random Forest, SVM, XGBoost, LSTM, CNN, and BLSTM models. An ensemble stacking the Random Forest, CNN, and LSTM models outperformed individual models, demonstrating how ensembles can produce more robust gold price forecasts.

Cracking the Stress Code:

- Analyzed wearable sensor data to develop machine learning models for stress level classification within a specific population, with a focus on reducing false negatives. Utilized multivariate time series data from accelerometers, heart rate monitors, electrodermal sensors, and other wearables to train Random Forest, LSTM, and BLSTM models to classify stress levels in a target population.
- Compared model performance - Random Forest achieved highest overall accuracy but higher false negative rate compared to LSTM/BLSTM models. Accuracy varied across individual participants.
- Concluded with the suggestion of collecting additional physiological signals and pre-training models on personal data per individual to improve model performance.

Offensive Language identification:

- Classified offensive vs non-offensive Twitter tweets using OLID dataset to detect hate speech, evaluating model performance on subsets of 25%, 50%, 75%, and 100% of data. Preprocessed data via contraction expansion, lowercase conversion, stopword removal, lemmatization and TFIDF vectorization.
- Implemented CNN and BLSTM models, finding CNN model performed better on smaller dataset while BLSTM model was more robust on larger dataset sizes in accurately detecting offensive language.

Credit card fraud detection:

- Developed machine learning models to accurately classify credit card transactions as faulty or not, using dataset with 29 variables.

- Performed data cleaning, visualization, and scaling as preprocessing before splitting data into train and test sets. Compared performance of KNN, SVM and Random Forest models, finding Random Forest achieved the highest accuracy. Used Random Forest's feature importance capabilities to identify and rank the top 3 most predictive variables for determining fraudulent credit card transactions.

SKILLS

Languages	Python(numpy, pandas, scikit-learn, nltk, sns, matplotlib, etc), sql
Data Science concepts	machine learning algorithms, data cleaning, data visualization, feature engineering, train, test and evaluate ml models
RPA tools	UIPath, Automation Anywhere, Power Automate
Visualization tools	Power BI
Repository	Github
Project Management tool	Jira

PROFESSIONAL EXPERIENCE

INFOSYS Bengaluru, India
SENIOR ASSOCIATE CONSULTANT *April 2021 – September 2022*

- Led End-to-End Business Process Automation. Executed 7 robotic process automation (RPA) projects on schedule, including 1 six-month and multiple parallel 3-4 month engagements for US-based banking/insurance clients.
- Automated processes across web, desktop and enterprise systems (SAP, mainframes) as well as documents, eliminating manual efforts equivalent to 3-5 FTEs per project. Integrated APIs into all solutions. Leveraged OCR for data extraction from scanned documents in 2 engagements. Debugged production issues.
- Guided a team of junior developers to develop UIPath bots and assist team members in their project queries.

ACCENTURE Bengaluru, India
SOFTWARE DEVELOPER ANALYST *August 2019 – April 2021*

- Designed, developed, tested, and deployed UIPath bots across 9 robotic process automation (RPA) engagements - including 6 three-month and 3 four-month projects - for Australian and British petroleum-based clients.
- Automated business processes across web apps, servers, SAP, PDFs, MS Excel and Word to save the equivalent of 1-5 FTEs in manual efforts per project.
- Coded VBA scripts optimizing Excel workflow automation. Migrated legacy Automation Anywhere bots to UiPath improving functionality.

EMIDS TECHNOLOGY PVT LTD Bengaluru, India
ASSOCIATE TEST ENGINEER *May 2018 – August 2019*

- Served as UiPath developer automating business processes across web applications, Excel, Word and PDFs for US healthcare clients. Collaborated with a 5-member distributed team to successfully build automation solutions.
- Worked on proof of concepts and pilot projects to demonstrate the value of robotic process automation. Quickly scaled up automation projects after securing projects through POCs.

LDS INFOTECH Bengaluru, India
SYSTEM ENGINEER *December 2016 – February 2018*

- Worked as a System Engineer providing Microsoft Azure cloud infrastructure solutions and also provided Microsoft products installation and support to clients.

CERTIFICATION

- UIPath Developer Certificate, Code: 59210643114043526
- Automation Anywhere Advance RPA Professional