

Omkiran Malepati

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Summary

Highly self-motivated and goal-oriented professional committed to pursue career in Machine Learning and Data Science. Collaborative team player with excellent technical abilities offering 2+ years of Experience in Machine Learning and Full Stack Development. With relevant projects and case studies bringing hands on knowledge of Machine Learning, Deep Learning algorithms along with Data preprocessing, visualization and model deployment techniques.

Experience

Tata Consultancy Services

TCS – Digital: Machine Learning Trainee.

Full Stack ASP .NET Developer, Automation Engineer.

Technical Skills

Machine Learning	: Machine Learning Algorithms, NLP, Basic Statistics, Linear Algebra. Libraries: NumPy, Pandas, SciKit-Learn, NLTK, SciPy, Matplotlib.
Deep Learning	: TensorFlow, Keras, MLP, Transfer Learning, CNN, RNN, LSTM, BERT
Programming Languages	: Python, C#
Data Analysis	: Data Visualization, Data Preprocessing, Dimensionality Reduction
Database	: MS SQL, MySQL
Platforms/Tools/Frameworks	: Azure Basics, Git, StreamLit, Heroku, Visual Studio, IIS, SSMS
Web Technologies	: ASP .NET, HTML5

Project Experience

Similar Text Search Engine Using BERT – BERT, PyTorch, Web Application



Jun. 2021

- Preprocessing and cleaning the web scrapped articles by creating reusable class for Text Preprocessing includes RegEx, Stemming (Sno; Porter), Stopword.
- Used AutoTokenizer, AutoModel and PyTorch for encoding articles and tensor operations.
- Similarity is used measured using cosine similarity between the article tensors.
- Deployed the model as a web page for searching the similar results using StreamLit.

Product review sentiment analysis – Machine Learning, Web Application



Nov 2020

- Preprocessing and cleaning the review text by creating reusable class for Text Preprocessing includes RegEx, de-duplication, Stemming (Sno; Porter), Stopword.
- Vectorizing the text data using like Avg W2V and TFIDF W2V.
- Applied predictive modelling techniques - Naive Bayes, Logistic Regression, SVM, Decision tree classifiers.
- Measured performance with best suitable methods - ROC AUC, Precision, Recall and Confusion Matrix.
- Deployed the model as a web page using Git, StreamLit and Heroku.

COVID-19 detection using Chest X-Ray – Deep learning, Web Application



Mar. 2021

- Performed preprocessing steps on the trainable data like labelling using images names, One-Hot encoding, reshaping etc.
- Used various transfer learning architectures for training model DenseNet121, VGG16.
- Designed a web page where domain expert can upload patient's chest X-Ray image to detect whether the patient has COVID-19/Viral Pneumonia/Normal condition along with probability values.
- Deployed the model using Git, StreamLit and Heroku.

Air pressure system failure detection in Scania trucks – Machine Learning

Apr. 2021

- Data preprocessing includes Standardization, outliers removal and upsampling.
- Trained various machine learning models and finalized few models i.e., Extra Trees Classifier, KNN models based on highest validation scores nearing 99.8%.
- Technologies used: Python, Machine Learning (Dimensionality reduction, Ensemble techniques).

Work History

- Firewall Backup and Upgradation Automation.
- Port Vulnerability Detection.
- Security Endpoint Automation.
- Change Request Replication.

Certifications

- Machine Learning Internal Certification.
- Azure Certification by Microsoft.
- Programming and Data Structures using Python by NPTEL.

Education

Jawaharlal Nehru Technological University

Bachelor of Engineering in Electronics and Communication

2015 – 2019

Narayana Junior College

Higher Secondary Education

2013 – 2015

Jawahar Navodaya Vidyalaya

Central Board of Secondary Education

2007 – 2013

Languages

- English - Fluent
- Hindi - Basic
- Telugu - Native

Interests and Hobbies

- Writing and reading technical blogs.
- Reading and watching gadget related content, movies.