Aman Kumar Nayak

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Education

Linköping University *2019-2021*

M.S. in Statistics & Machine Learning

Rajasthan Technical University *2012-2016*

B.Tech. in Electronics & Communication

Experience

Software Engineer - Tech Mahindra Ltd. *Aug-2016 June-2019 / India*

Client : British Telecom

•Developed new requirements and also improved existing code by rewriting it where necessary and performed peer-based code review.

•Tested troubleshooting methods, devised innovative solutions, and documented resolutions for inclusion in the knowledge base for support team use.

•Built an outstanding and dynamic team of software developers which, significantly boosted the overall success of the team.

•Introduced methodologies and best practices in the team, to enhance product definition and application customization.

Skills

Programming Languages	***Experienced:*** Python | R | Javascript | SQL ***Familiar:*** PySpark | C | Bash | HTML | CSS
Software Development	AWS | GIT | CLI | Agile Methodology | Jira | HP ALM
Frameworks & Libraries	Jupyter | Matplotplib | Numpy | Pandas | Scikit-learn | Tidyverse | PyTorch | Tensorflow
Machine Learning	Classification & Regression Models | Clustering | Dimensionality Reduction | t-Test
Deep Learning	Deep Neural Network | CNN | RNN | LSTM | Data Augmentation
Languages	***Native:*** English | Hindi ***Beginner:*** Swedish

Project

- **Bank Account Churn Prediction**
  - To predict the top 5% of customers who are likely to cancel bank account in the future.
  - The logistic regression-based model was developed with 87% accuracy
  - Results were classified into 3 different groups named: High-Value, Moderate, and High-Risk to select customers for the pre-retention task.

- **Fake News Detection**
  - To identify fake news in given set of articles.
  - Data was collected using web crawler and trusted sites were selected based on there past and other articles were flagged based on there cosine distance with trusted article for a given topic.
  - Maximum accuracy achieved by NLP Model is 82% on test data.

- **CNN based Audio Data Sentiment Analysis**
  - To identify sentiments in given audio file.
  - Audio file stream is divided and Mel-Frequency Spectrogram [Images] were created to identify different emotions.
  - Compared the behavior of the architecture with different configurations: BatchNormalization, Dropout, different optimizer, adding layer or neurons, and writing custom Dropout function.
  - Maximum accuracy achieved by CNN architecture is 84% on test data.