AMAN KUMAR NAYAK

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EXPERIENCE

Deep Learning Thesis Intern

Center for Medical Image Science and Visualization

Dec 2020 – Present Linköping Sweden

- Tech Stack: Pytorch, Python, CNN, 3D-NeuralNet, Image Pre-Processing
- As part of the research, I'm are trying to build CNN for 3D segmentation of heart and identification of left atrium appendage using CT-Scan Images of heart.

Software Engineer

Tech Mahindra Ltd. (Client : British Telecom U.K.)

Aug 2016 – June 2019 Pune India

- Domain: Telecom Retail
- Tech Stack: JS, Python, RestAPI, SQL, Unix, CRM, Agile
- Managed a team of 6 developers and 2 testers to timely deliver new products in the agile release.
- Improved the quality of the product by rewriting code where necessary and performed peer-based code review.
- Developed an automatic log analysis tool for quickly extracting log features resulting in reduced log analysis time.
- Analyzed defect movement between the Dev and Test team, discovered a bottleneck in the process, and reduced Type-2 bugs fixing time by two days.

PROJECT

CNN based Audio Data Sentiment Analysis

- To identify sentiments in an 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: Batch Normalization, Dropout, different optimizer, adding layers or neurons, and writing custom Dropout functions.
- Maximum accuracy achieved by CNN architecture is 84% on test data.

Fake News Detection

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

Bank Account Churn Prediction

- To predict the top 5% of customers who are likely to cancel a 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.

EDUCATION

- Master of Science
  Statistics & Machine Learning
  Linköping University
  2019 – 2021 Linköping Sweden
- Bachelor Of Technology
  Electronics & Communication
  Rajasthan Technical University
  2012 – 2016 Rajasthan India

SKILLS

Python R JavaScript eScript PySpark C Bash HTML CSS SQL NoSQL RestAPI Unix AWS Docker CI CD CLI Jira Agile CRM Pytorch TensorFlow Jupyter Numpy Pandas Keras Scikit-learn Tidyverse Classification & Regression Models Clustering Dimensionality Reduction Bayesian Modeling Kalman Filter Deep Neural Network CNN RNN LSTM Data Augmentation

AWARDS

- Project Award - March 2019
  Tech Mahindra Ltd.
- Project Award - March 2018
  Tech Mahindra Ltd.

LANGUAGES

English
Svenska