Pinakin Nimavat

GitHub: Pinakin Nimavat

Contact: +1 (773)-322-5745

Linkedin: Pinakin Nimavat

Email: pnimavat@hawk.iit.edu

Technical Skills

Languages: Java, Python, SQL, R

Artificial Intelligence: Statistical Reporting, Model development, Data mining, Applied Mathematics, Neural networks, NLP, ML algorithms

Database Management: MySQL, ETL, Data integration, Data governance, Data Streaming, Apache kafka **Developer Tools**: Git, Apache hadoop, Pycharm, Jupyter notebook, Visual Studio, Tensorflow, KNIME

Experience

Intern Data Analyst

Jul 2019 - Jan 2020

BlinkLink Solutions Pvt. Ltd.

Gujarat, India

- Technologies: Pandas, Matplotlib, Scipy, Statsmodel ,MySQL, Apache Spark, Seaborn, Python
- Filtered and cleaned data with automated and manual data reviews and transformed raw data into actionable insights for internal teams
- Compiled data and prepared spreadsheets to execute assigned deliverables.
- Learned processes and key controls governing day-to-day activities of cost basis function to minimize operational risk.
- Helped clients by understanding strategic implications of geographic and industry trends.

Teaching Assistant - Advanced Data Mining

Jan 2022 - Present

Chicago, IL, USA

Illinois Institute of Technology

- Assisting the professor in analysing and grading students' assignments and projects.
- · Providing in depth individual guidance to students for their end semester project.

Projects

Drowsiness Detection

Mar 2021 – May 2021

- Technologies: OpenCV, Pandas, MobileNet, keras, HaarCascade, numpy
- Used OpenCV library to capture video and performed analysis for detecting drowsiness and yawning.
- Mouth-Aspect-Ratio and Eye-Aspect-Ratio were calculated using dlib library and using $shape_predictor_68_face_landmarks.dat$ file
- An alarm message (sound and text) was triggered whenever the threshold value was crossed.

Crime analysis and prediction

Mar 2021 - May 2021

- Technologies: Google Colab, Keras, FBProphet, pandas, numpy, matplotlib, CNN, SVR, random forest
- Created single step time steps and 30 step time steps as input for time series forcasting. Performed descriptive and Explanatory Data analysis.
- Used FBProphet, CNN, SVR, RNN, RNN LSTM, MLP-classifier to predict number of crimes for future.
- Approached LSTM with rolling window technique. Compared the accuracy of all the models and got highest R squared score of 0.625 for MLP Classifier.

De-noising the Dirty Documents

Aug 2018 – May 2019

- Technologies: Theano, OpenCV, Numpy
- Developed an application which removes the noise such as various stains and wrinkles from the pages.
- Developed a Convolution Neural Network model of six conv2d layers with activation function 'LeakyRELU'.
- Created custom loss function and adam optimizer to train the model in efficient manner. Able to get 94% accuracy.

Query to Text Jul 2020

- **Technologies**: BeautifulSoup, re, spacy, GloVe
- Efficiently worked on a python script by using spaCy library (Advanced NLP), where it returns results by locating the nearest Wikipedia article when we enter some word.
- Used praw (python reddit API wrapper), Wikipedia API wrapper and beautiful soup to parse the web page related to the input text.

Covid19 - People's perception from twitter

Aug 2021 – Dec 2021

- **Technologies**: Vader Sentiment, Pandas, XGB, re, WordCloud, Spacy, Gensim, Beautiful Soup
- Annotated texts using LightTag. Created heatmap using pearson's correlation, density plot and histogram for char count and average word length as a part of EDA.
- Used VADER sentiment analysis to get polarity scores to quantify the intensity of emotion of texts.
- Applied and fine tuned XGB classifier and Gradient Boosting classifier for binary classification task. Able to get 80% of accuracy with gradient boosting and 82% accuracy with XGB.

Education

Illinois Institute of Technology - IITC

Jan. 2021 – Present

Master's in Computer Science

GPA: 3.5, Chicago, USA

Gujarat Technological University - ADIT

Aug 2015 – May 2019 GPA - 3.87, Gujarat, India

Bachelor's in Engineering in Computer Engineering