ABHIJITH K S

Data Science & Analytics, Decision Science

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EXPERIENCE

Decision Scientist

Mu-Sigma

June 2019 – July 2022 | Banglore, Karnataka

Launch Support & Analytics

June 2021 – July 2022 (SQL, python, Tableau)

- Managed a team of fifteen analysts who assisted the Strategy team in determining the pertinent indicators that needed to be monitored during the introduction of a new drug into various markets
- Compiled all field strategy, financial strategy, promotional strategy, and customer strategy data into a single dashboard(Tableau) and enabled the leadership team in staying on top of all launch operations on each front. The analysis for the BE data was processed in python which needed knowledge of databases, pandas, numpy etc. The ADS created was pushed into AWS S3 buckets through boto3 library.
- The team also created a dashboard(Tableau) that is presentation ready, which helped them in tracking the pre prep for future launches (Launch readiness). This dashboard helped the launch strategy team in tracking each steps of launch process which previously was done using excel tracker, leading to many errors and time wastage

Network Analytics

Feb 2021 – May 2021 (SQL, python, Tableau, Excel)

- Led a three-member team who helped the launch team in finding the most effective healthcare providers to contact in order to enroll patients in a new study
- Techniques like hcp profiling, distance calculations were involved in this activity
- This assisted the customer in reducing efforts in terms of both money and time, and it helped them choose the best course of action

Customer Insights Portal Analytics

March 2020 – Jan 2021 (python, SQL, Tableau)

- Developed a sentiment analyzer for medical insights obtained, comparing the performance of libraries BERT, BIOBERT, and SciBERT. This aided the Customer Engagement Team in finding and categorizing pertinent material that required rapid attention, which previously required a great deal of human engagement.For this CRM project, I worked on sentiment analysis to categorize HCP insights as good, negative, or neutral. To construct this, I utilized BERT for embedding and added a classification layer to the end of the pretrained model. However, there were challenges such as class imbalance, data shortages, and so on throughout implementation. But using this, we were able to attain over 60% accuracy and accurately identify the majority of the insightful findings.
- Used text mining and text clustering techniques to group the insights collected to particular categories using TF-IDF technique
- Created curated reports using text mining and NLP techniques to support major US Medical congresses such as ASCO, ASH etc. These were numbers pulled out after processing text data to finding most trending terms, topics etc. This helped the leadership team in following the flow of a concept or topic over time to find out which is the most relevant topic of discussion. We used python to do the data processing and displayed the information in the form of Tableau dashboards.
- Created notebooks for automated reports on impact of COVID-19 in different therapeutics areas, which involved trending topics identification, information retrieval from raw text etc.

Patient enrollment prediction - NRDG Studies

June 2019 – Feb 2020 (R, python, SQL, Tableau, Excel)

LIFE PHILOSOPHY

"Expect the best and prepare for the worst."

SKILLS

Python | SQL | R | Statistics | Deep Learning | Machine Learning | Data Visualization | Natural Language Processing | Image processing

pandas | numpy | transformers | keras | tensorflow | pytorch | nltk | BERT | Neural Networks | CNN | RNN | LSTM | Tableau | plotly | dash | vgg16,19

LANGUAGES

English
Malayalam
Hindi

EDUCATION

M.Tech in Data Science & Engineering

BITS Pilani

Oct 2020 – Nov 2022

B.Tech in Mechanical Engineering

College of Engineering Thiruvananthapuram

June 2013 – March 2017

- Performed patient enrolment prediction for NRDG Studies
- Used multiple regression techniques such as linear regression, polynomial regression etc to derive the best prediction values
- Helped the client in making decisions on studies that will be delayed in the future and derive business strategies based on the predictions. The above information helped the leadership team in identifying studies that were having a risk of getting delayed and also properly understanding why are they getting delayed

Associate Analyst

Ernest & Young

April 2018 – May 2019 Ernakulam, Kerala

- (python, SQL, Tableau, Excel)
- Started career as Data Analyst. Had the opportunity to look into and perform ETL on different variety of data
- Worked on image processing and recognition activities from scanned pdf documents
- Worked on Audit data of fortune-500 companies

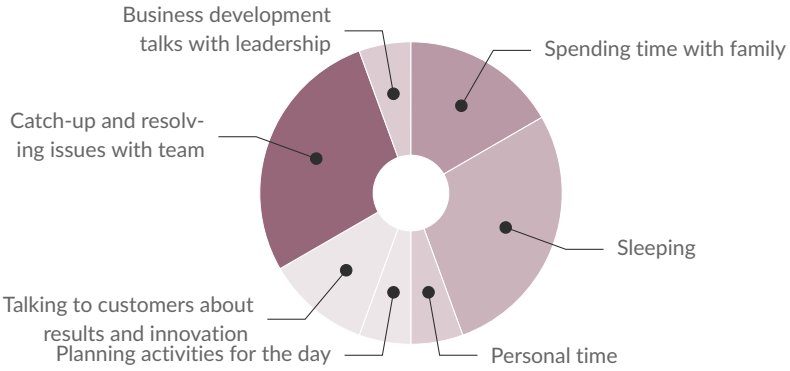
Mtech thesis

Birla Institute of Technology Pilani

May 2022 - Aug 2022 Pilani

- (python, Tableau, Excel)
- We sought to make a product that could convert photographs to sounds while working on the image to audio generator. Here, I decoded the image using a CNN model (VGG16, Resnet50, etc.), tokenized and embedded the captions using glove embedding, and then integrated the two models to convert the image to text and the text to audio using the Google API.
- There were many NLP related assignments that I have worked on during my Masters in data science and engineering like image caption generator , restaurant recommender, stack overflow question quality classification etc.

A DAY OF MY LIFE



CERTIFICATIONS

- Padhai - Deeplearning Course - One Fourth Labs
- Neural Networks and Deeplearning - Coursera
- EY Analytics - Data visualization - Bronze (2018)
- EY Analytics - Data integration - Bronze (2018)

HOBBIES

- Badminton
- Watching documentaries