ROHIT KUMAR

Proactive self-starter with a positive attitude and desire to learn, seeking career growth opportunities in Data Science and Machine Learning Domain.

rkrohitkr01@gmail.com +91-9113742764 rkrohitkr01 stenzr

EDUCATION

***Integrated Masters of Science in* Mathematics and Computing** *--2016-2021*
Birla Institute of Technology, Mesra *CGPA : 8.2*

XII (CBSE) *--2015*
Vidya Bharati Chinmaya Vidyalaya, Jsr *Percentage: 90.80%*

X (ICSE) *--2013*
Vig English School, Jsr *Percentage: 90.20%*

PROJECTS

(i) Early Sepsis Detector

- This project was made during SIH 2020 and was recommended for finals.
- Implemented ensemble based classifier models on the highly imbalanced physiological dataset.
- Deployed the trained model as Rest API using Flask on Heroku to be consumed by an Android frontend.
- Tech Stack: *sklearn, Tensorflow2, XgBoost, imblearn, Flask, Heroku*

(ii) Indoor Navigation for Retail Store

- An app for searching, listing and navigation to the aisles for a given list of products in a retail store.
- Webscraped the store website to create a sqlite database of products, appended a new feature aisle number.
- Developed a REST API in Flask to: Search for the location details of the product, provide the list of products to get the respective aisle numbers, get an optimal path for the shopping trip for the list of products.
- The endpoint tasks were handled by CRUD queries on the database.
- Tech Stack: *Python, urllib, BeautifulSoup, SQLITE, Flask, Heroku*

(iii) Sentiment analysis on Twitter stream and Stock Price Prediction

- Analysed trend in Market sentiment from tweets related to companies in observation.
- Used different NLP algorithms like BOW, tf-idf on the tweets, used textblob to classify the polarity of the tweets.
- Used the sentiment output as indicator, developed models on stock data to predict the trend, seasonality,level and stock movements.
- Tech Stack: *NLP, Time Series, Python*

SKILLS

- **Languages and tools:** C++, Python
- **Database:** SQL, Mongo DB
- **Machine Learning:** sklearn, statistics, NLP, Time Series
- **Deep Learning:** Tensorflow2, Keras
- **Deployment:** Flask, Heroku

PUBLICATIONS

Aggarwal, Y., Das, J., Mazumder, P. M.,**Kumar, R.** and Sinha, R. K. **Heart rate variability features from nonlinear cardiac dynamics in identification of diabetes using artificial neural network and support vector machine.**
Journal: Biocybernetics and Biomedical Engineering

ACHIEVEMENTS AND AWARDS

- Secured a position in **top 4** software teams in Internal Hackathon for **Smart India Hackathon** 2020 ***(Recommended for finals)***.
- Secured **Gold Medal** at school level in **IMO 2010**.
- Represented BIT-Mesra in **SBSI 2018**.

POSITION OF RESPONSIBILITY

(i) Joint General Secretary at NSS BIT Mesra *(Jan2019 - Apr2019)*

- Delegated tasks to 5 teams, supervised the quarterly and annual report to the Ministry of Youth Affairs and Sports GOI.
- Spearheaded programs to pilot different events, campaigns and camps.
- Chaired a team of 10 team heads and 46 executives.

(ii) Assistant Village Education Program Coordinator at NSS BIT Mesra *(Jul2018 - Apr2019)*

- Partnered with the village heads, to formulate a zero cost tuition for the children of 10 villages.
- Remodeled the existing structure, amplified the volunteer participation by 40%.
- Managed a team of 8 executives and 350 volunteers.

(iii) Core Team Member in Pantheon 2018 *(Annual Technical fest of BIT Mesra)*

- Navigated resources between 20 event locations during the 3 day fest.
- Negotiated with the local vendors to gather resources.
- Created a supply chain for the effective distribution of resources.