Rishabh Sharma

Data Scientist

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EDUCATION

Drexel University, Master Of Science in Data Science (GPA: 3.90/4.00) **Sept 2022-June 2024**
Relevant Coursework: Machine Learning, Deep Learning, Data acquisition, and preprocessing, Data Analytics.
Ujjain Engineering College, Bachelor of Technology in Computer Science **Jul 2018-Jul-2022**
Relevant Coursework: Big Data, Introduction to AI, Cloud Computing, Data Structures, and Algorithms.

TECHNICAL SKILLS

Programming languages: Python, R, Java, C, C++, Matlab.
Big Data and machine learning: Hadoop, pysparks, TensorFlow, Keras, PyTorch, NumPy, Pandas, Matplotlib, Scikit learn.
Data Science and Miscellaneous: A/B testing, ETL, Data Science Pipeline, Hypothesis Testing, OOPS, git.

PROFESSIONAL EXPERIENCE

DIGITAL PASS **INDORE, INDIA**
Data Science Intern **Feb 2021-Oct 2021**

- Implemented unsupervised machine learning algorithms and conducted sentiment analysis of 5TB of unstructured text data collected from Twitter and feedback handles of the company utilizing Python programming language.
- Managed a massive corpus of texts by utilizing Pysparks and various ML services with cloud computing resources from Google Cloud and AWS.
- Constructed recommendation systems and chatbots for numerous companies while optimizing data pipelines for large-scale nearest-neighbor search algorithms.

SK ENTERPRISES **BHOPAL, INDIA**
Data Science Intern **Nov 2020-Jan 2021**

- Formulated statistical models to enhance fare products and overall customer experience by gaining insights into customers.
- Boosted the accuracy of predicting the demand for 36 products by 40% by applying statistical forecasting using LSTM.
- Developed a predictive system to monitor machine performance and downtime with a 94% accuracy rate, leading to a 14% increase in overall equipment effectiveness(OEE).

PROJECTS(GITHUB)

PHILADELPHIA COURT SENTENCING PREDICTION — **NOV-2022**

- Constructed a multi-class classification model that predicted the type of sentencing for a database of over 300,000 docket details.
- Achieved an accuracy rate of 81% by employing a deep-learning classification model and a 78% accuracy rate using XGBoost.

MATHEMATICAL EQUATION SOLVER USING NMT — **MAR-2022**

- Interpreted complex mathematical equations as a language and applied neural machine translation using a bi-LSTM model to convert them into their corresponding solutions.
- Expanded a dataset containing more than 400,000 equations and their answers to enhance the training and testing of the model.
- Attained an accuracy of 82% on the validation dataset.

COVID-19 CASE DETECTION AND FORECASTING — **MAY-2022**

- Used an LSTM Time-Series Forecasting model to forecast the course of COVID-19 cases over the next 30 days with an accuracy of 84%.
- Utilized a convolutional neural network model using greedy pre-training to predict whether a specific CT scan included signs of covid-19 and attained an accuracy of 98% without overfitting.
- Results were showcased using a website developed using ReactJS as the frontend and Flask as the backend.

ACHIEVEMENTS

Won the SOCIAL JUSTICE HACKATHON, PHILADELPHIA. **OCT- 2022**
Won the best major project award at UJJAIN ENGINEERING COLLEGE, UJJAIN. **APRIL- 2022**
Won the UEC-thon UJJAIN ENGINEERING COLLEGE, UJJAIN. **JAN- 2022**