Sourav Saha

PERSONAL INFORMATION

Kolkata, India
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CAREER SUMMARY

5.6 years of professional work experience on **Data Science and Data Structure**. Relevant work experience on Sales forecasting, Named Entity Recognition, Tag Extraction, Classification, non personalized Recommendation using graph theory. **Mentored more than 50 interns** in different domains for my hobby initiative.

SKILLS

Python, Tensorflow, Scikit-learn, Deep Learning, Networkx, Seaborn, PySpark, GCP, Azure

PROFESSIONAL EXPERIENCE

Mindtree - Senior Software Engineer   **July 2021 - Present**

- Retail: Identify **promotions and distribution efficiency** after **baseline sales prediction.**
- Healthcare: Budget forecasting for different modalities (products) across different areas.

Tata Consultancy Services Ltd. - System Engineer (TCS Digital)   **January 2017 - June 2021**

- Insurance: Filed PATENT on **Unemployment fraud detection** for a Govt. state.
- Healthcare: Implemented **Named Entity Recognition using LSTM** algorithm with Tensorflow
- Retail: **Inventory management** across stores and product.
- **Recommendation problems** using NetworkX and experience working in Grakn graph database.
- **Tag Extraction** using POS from front-end using JavaScript
- Datasets preparation and implementation of **classification and document similarity** problems
- Aspect based sentiment analysis.

FusionCharts Technologies Pvt. Ltd., - JS Developer Trainee   **July 2016 - December 2016**

- Adding new functionalities to different type of charts and creating new charts based on company requirements. Implementations were made using maths, data structure with JavaScript.

HOBBY PROJECTS

- **Machine Learning Hackathons**
  - Predict Hospital stay duration for COVID patients using CatBoost, Deep Learning - Rank : 142 / 19K
  - Predict Future Sales using XGBRegressor - Rank : 277 / 8K
  - Twitter Sentiment Analysis using LSTM - Rank : 416 / 15K
  - BigMart Sales Prediction using StackingCVRegressor - Rank : 1726 / 32K
  - Time Series Forecasting of JetRail passengers using Prophet, Holt's Winter, Sarimax - Rank : 399 / 19K

- **Exam Preparation Online** - An online portal to simplify the email digest for daily learning activities on machine learning, sports and technology. It also features interview experiences and success stories in simplified format.
  - **Filter out blog links** from mail contents and broadcast relevant contents via website and chrome extension.
  - **Extract text using tesseract from Images** of question papers and segregate them to individual questions
  - **200+ Subscribers, 300+ monthly visits, 2K unique visits before interviews, 1.3K FB likes**

- **Google Search Recommendation** - Chrome extension to track online activity of user. Visual representation of online activity through charts and recommended links in Google search page based on their past activities.

CERTIFICATIONS

Machine Learning

- Supply Chain for Management Consultants and Business Analysts - Udemy
- RA: Data Science and Supply Chain analytics. A-Z with Python - Udemy
- Natural Language Processing in TensorFlow - Coursera
- Neural Networks and Deep Learning - Coursera
- TCS Machine Learning E2 competency
- Basic Sentiment Analysis with TensorFlow - Coursera
- Data Engineering, Big Data, and Machine Learning on GCP Specialization - Coursera
- MLOps (Machine Learning Operations) Fundamentals - Coursera
- DP-100: A-Z Machine Learning using Azure Machine Learning - Udemy
- Data Analysis Using Pyspark - Coursera
- Exploratory Data Analysis with Seaborn - Coursera
- Machine Learning Foundations: A Case Study Approach by University of Washington - Coursera

EDUCATION

Bits Pilani, Executive M.Tech. Data Science. 2021 - 2023
Institute of Engineering & Management, Kolkata, B.Tech., (DGPA) : 8.43 / 10
Nava Nalanda High School, Kolkata, Higher Secondary : 68
Nava Nalanda High School, Kolkata, Secondary : 80.3