

JUDHAJIT ROY

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SUMMARY

- A detail-oriented and highly motivated Developer with 2.5+ years' experience in Big Data development for driving business solutions primarily using Python, Spark, SQL etc.
- Machine learning and Deep Learning practitioner with an understanding of creating models for tabular data, images and text.

EDUCATION

Master of Science - Computer Science

Aug 2021 - Present

University of Illinois at Chicago, USA

Bachelor in Electronics & Telecommunications Engineering

Aug 2014 - June 2018

University of Mumbai, IND

TECHNICAL SKILLS

Programming Languages: SQL, Python, Java, Unix, pySpark | **Machine Learning:** sklearn, NLTK, NumPy, Pandas, Seaborn

Big Data: Hive, Kafka, Presto, Airflow, Azkaban | **Deep Learning:** NLP, CNN, Tensorflow, Pytorch, LSTM

WORK EXPERIENCE

Data Science Intern – Trippers | Monaco (Remote)

March 2021 - Aug 2021

A start-up working on perfecting an app to generate travel itineraries and connect travellers.

- Developed logical methods on python for the core algorithm to generate itineraries with shortest and most apt route catering to the user preferences.
- Implemented a recommender system using the principles of text similarity that reduced manual efforts in searching cities to visit in Europe by 100%.

SDE, Big Data – Reliance Jio Platforms Ltd | Mumbai, India

Aug 2018 - May 2021

India's Largest LTE Network Provider with Annual Revenue of USD 1.7 Bn.

- Built ETL pipelines on Apache Spark to migrate Big Data (TB and PB of memory) from one storage system to another.
- Developed algorithms for data aggregation to cut down run time from hours to under 15 minutes and scheduled the jobs using Cron expressions for batch processing on Azkaban and Airflow Job schedulers.
- Implemented real-time streaming of data gathered from Over-the-Top (OTT) Services through Kafka brokers.
- Created a chat-bot for customer - AI conversations to maximize customer reach and achieve accurate interaction results.

Full Stack Development Intern - Tata Consultancy Services | Mumbai, India

June 2017 - Sep 2017

World's third largest IT Company, providing solutions to businesses across the world.

- Developed an end-to-end Java based application using JSPs and servlets to determine employee salaries.
- Designed a SQLite database to fetch employee data and calculate the monthly salary of the employees based on leaves and reimbursements.

PROJECTS

Language Translation using Seq2Seq Model:

- Built a Seq2Seq Model using the encoder-decoder architecture to translate English language text to Marathi language.
- The model translates English phrases in to precise Marathi phrases and the same architecture can be reused for other language translations as well.

Health Diagnosis Chat-bot:

- Currently working on building a Healthcare Chat-bot as a part of my Natural Language Processing Coursework.
- The chat-bot is capable of performing simple health diagnosis tasks based on natural language input of the user.

English Premier League Teams Predictor:

- Developed a Convolutional Neural Network to classify 6 major EPL teams using 100 images of players in their team jersey.
- The model was able to predict the team from the images of the players with a validation accuracy of 72%.