Sachin Rajput

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EDUCATION

Liverpool John Moores University, Liverpool L3 5UX, UK   **Jan 2022-July 2023**
Master of Science, Machine Learning & AI
Courses: *Foundations of AI, Analysis of Algorithms, Machine Learning, NLP, AI, Deep Learning*

Guru Gobind Singh Indraprastha University, Delhi, INDIA   **Aug 2015-Jun 2019**
Bachelor of technology, Mechanical Engineering   GPA - 7.4
Courses: *Algorithms and Design, Robotic, Artificial Intelligence*

TECHNICAL SKILLS

- **Interests and Domain:** Full stack development, Knowledge Graph, Data Analysis, Machine Learning, NLP, Time Series, CNN, RNN
- **Languages and Frameworks:** Python, C++, HTML, SQL, CSS, JSON, Flask, Git, Django, Jenkin, Docker, Mlib, Scoop, Zookeeper
- **Databases and QL:** MySQL, MongoDB, Cassandra
- **Libraries:** Pandas, Plotly Matplotlib, Dash, Numpy, Seaborn, Scikit, Spacy, Gensim, Keras, Pytorch, Xgboost, Tensorflow, GBM
- **Tools and Infrastructure:** SageMaker, GCP, AWS, Tableau, Azure, Docker, Snowflake, Pyspark, Glue, EC2, ECS, Hadoop, Hive, lambda

WORK EXPERIENCE

- **Data Scientist | Inventico Infotech Pvt Ltd, Noida, India**   **Jan 2022– July 2022**
  - o Worked on the Product Purchase Model using Random Forest and XGBOOST
  - o Worked on Forecasting using ARIMAX.
  - o Next Best product recommendation-based Model.

- **Data Scientist | EzappSolution, New York, USA**   **Aug 2020– Jan 2022**
  - o Worked in the **Research and Development team focusing on Digital Technologies.**
  - o **Automation:** Single handedly developed Python library for Machine Learning which included EDA processes, visualizations and algorithm's implementations, to abstract the general pipeline which **reduced human effort per project by 80%**.
  - o **Full Stack:** Collaborated in a team of four to build a Sales forecasting model using ARIMA to investigate Sales. Dashboard in python by plotly dash is fully dynamic and responsive on any device. There are three charts and one data table in this web app.
  - o **Machine Learning:** Worked on ML Model to validate Land Home Price. Played the role of a Data Scientist with a small team. Was completely responsible for end-to -end delivery of the requirements. Hands-on ML Model using. ML Model to Validate land to home price prediction for 1st year, 2nd year, 3rd year with python. We used ARIMA for forecasting of next 3 year.
  - o **Case Study:** Loan to 'Risky' applicants is the largest source of financial loss (called Credit loss). The credit loss is the amount of money lost.

- **Machine Learning Engineer Intern | Tech Vision, New Delhi, India**   **Nov 2019-July 2020**
  - o **Machine Learning:** Automation of Shipment Forecast using ARIMA, XGBOOST, ENSEMBLE.
  - o **Computer Vision:** Worked on Face Recognition is a technology in computer vision. We have used OpenCV library detection we locate and visualize the human faces in any digital image.

ACADEMIC PROJECTS

- **Credit Card Fraud Detection** | ***Python, Flask, PyCaret (AutoML), AWS***
  A Model Building and Prediction using Pycaret.

- **MultiDash | Python, Flask, Time Series, Plotly, Dash**
  Python library that helps in time series algorithms and provide code for visualizations and metrics calculation.

- **Fake News | *Python, Supervised ML, Pandas, TF-IDF, Scikit Learn, Numpy, CountVectorizer, MultinomialNB***
  Fake News using Multinomial Naïve Bayes algorithm and few shot learning with accuracy score of 87% .txt words.

- **Mobile app Rating Prediction** | ***Python, ML, Data Science, Deep Learning, Natural Language Processing***
  WebApp to generate a Mobile app rating Prediction based on a single input title given by user through ML and Deep Learning.

- **Bank Customer Churn Prediction | Data Analytics, Python, Pandas, Numpy**
  Solve Business problem using Data Science and Analytics dashboard of interactive charts (line, pie, bar) Build & Deploy Project.

- **Customer Revenue | Time Series Forecasting, Python, LSTM, Flask, Dash**
  Lead team of four to develop an application to forecast price with 94.3% accuracy with LSTM model.

EXTRA CURRICULAR

- **Research Assistant Intern | International Institute of Information Technology, Bangalore, India** (Mar 2022- May 2022): Network Representation learning in machine with python representation of a network having over 50000 nodes interconnected in some pattern like probabilistic, statistical and also working over the degree and different attributes of the network.
- **Teaching Assistant at Liverpool John Moores University** (Jan 2022 – Present): Produced course materials, Graded assignments, quizzes, and held office hours to assist graduate students with code debugging and homework - Programming with Data Science, Data Science and Statistics for Business, Knowledge Graphs, Version Control System, Inferential Statistics and Hypothesis Testing
- **OpenSource contributor for Pycaret:** Developing the code recommendation system library using Python.

LEADERSHIPS AND ACTIVITIES

- **GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY Student Association** (2017-19) at GGSIPU - Organised technical, academic cultural.
- **RASA CHATBOT using** tensorflow, platforms during Summer 2021.
- **Vice President** for Cricket Society (2017-2019) in Undergraduate.
- Completed **Machine Learning and Deep learning certification** by Tech Vision in Summer 2019 got Python certification from Tech Vision, in Winter 2019, completed big data certification from Aptron summer 2020 and. completed flask & Model deployment certification from Aptron summer 2020. And Completed AWS, Azure, GCP certificate from Tech vision summer 2021.
- **Published** <u>Achieving AI Hybrid CAR Published by International Journal for Technological Research in Engineering</u>, – The Journal. (2019)

PERSONAL INFORMATION

- **Gender :-** Male,   **Nationality :-** Indian