

Prajwal S

Master of Science | Data
Scientist | Python
Developer

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SUMMARY

2.5+ years experienced, meticulous & result-oriented Data Scientist armed with a proven track record of analytical acumen in deploying complex machine learning and statistical modeling algorithms/techniques for identifying patterns and extracting valuable insights. Possesses diverse experience in planning & executing multiple projects and liaising with the key stakeholders to identify & resolve business problem statement and deliver excellent results.

KEY SKILLS

- **Machine Learning Methodologies** • **Optimization Techniques** • **Text Mining** • **Data Mining & Analytics**
- **Predictive & Statistical Modelling** • **Sentiment Analysis** • **Account Mining** • **Data Analysis** • **Data Visualization** • **Project Delivery** • **Predictive Modelling & Analytics** • **Programming** • **Process Improvement**
- **Team Coordination & Leadership** • **Debugging**

TECHNICAL SKILLS

Languages: Python, Java, HTML, JavaScript, C, C++

Machine/Deep Learning: ANN, CNN, LSTM, RNN

Database: MySQL, MongoDB

Statistics/ML: Linear/Logistic Regression, Ensemble Trees, Gradient Boosted trees

Software tools: MySQL

Developer, PyCharm, Eclipse IDE, IntelliJ, Spyder, Jupyter Notebook, Google Colab, Postman, Atom, Android Studio, Microsoft Office

EDUCATION

Master of Science in Data Science

Aug '21- May '23

Liverpool John Moores University - (LJMU)

United Kingdom

MS in data science with specialization on deep learning

- **Course Modules:**

- Introduction to Research and Research process | Research design | Research Project Management
- Scientific Ethics | Literature Review | Research Methodology | Research Plan
- Thesis writing and presenting | Video Presentation | References

Post Graduation in Data Science

Aug '21- Aug '22

International Institute of Information Technology Bangalore - (IIITB)

Bangalore

PG in data science with specialization on deep learning

- **Course Modules:**

- Data Analysis in Excel | Analytics Problem Solving | Data Analysis using SQL | Introduction to Python
- Programming in Python | Python for Data Science | Inferential Statistics | Hypothesis Testing
- Introduction to Machine Learning and Linear Regression | Logistic Regression | Tree Models
- Model selection | Principal component Analysis | Advanced Regression | Boosting | Time series forecasting

- **Secured 3.3/4.0**

Bachelor of Engineering in Computer Science

Jun '16- Mar '20

Visvesvaraya Technological University - (VTU)

Bangalore

BE in computer science

- **Secured 7.5/10.0**

RESEARCH PROJECT AND KEY DATA SCIENCE PROJECTS

Seller-Buyer Price Negotiation using Machine Learning Techniques (Masters Dissertation)

Aug '22- May '23

- **Negotiation or bargaining** is a skill that involves people interacting with one another in order to reach an agreement that is better than the original price
- We are integrating **ML algorithms** with Ensemble Techniques to further study the topic of negotiation. These algorithms aid in forecasting the optimal price, and for negotiation, we use Averaging for **Discounting** and doing what-if scenarios
- Key Achievement: Created a model with an **AUC score of 0.85 and accuracy with 79 %**
- [Research Paper](#), [Video Presentation of Dissertation](#)

Eye for Blind (CNN-based encoder & RNN-based decoder):

Aug '22- Sep '22

- In this capstone project, you have to create a **deep learning model** that can describe the contents of a picture in the form of speech using **caption generation** and an **attention mechanism** using the Flickr8K dataset. This type of approach is useful for blind individuals to interpret any visual using voice. A text to voice library will be used to transform the caption generated by a CNN-RNN model to speech
- This problem statement employs both **deep learning and natural language processing**. An image's features will be retrieved using a **CNN-based encoder and decoded by an RNN model**
- Key Achievement: Created a model with an **accuracy with 78.1%**

CERTIFICATIONS/TRAINING

- PCAP: Programming Essentials in Python from **Python Institute**
- Python And Flask Framework Complete Course from **Udemy**
- Core Java Programming Course (Completed with A+ Grade in **Rooman Technologies**)
- HackerRank Python Skill Basics (By **HackerRank**)
- Machine Learning (By **Udemy**)
- Python 101 for Data Science (By **IBM Developer Skills Network**)
- The Fundamentals of Digital Marketing (By **Google Digital Garage**)
- AWS Cloud Practitioner Essentials (By **AWS Training & Certification**)
- Google Cloud Platform Business Professional Accreditation (By **Google Cloud**)
- Python, Machine Learning, Django, Deep Learning, Natural Language Processing Unified Course (By **Pentagon Space**)

ADDITIONAL ACHIEVEMENTS & VOLUNTEER EXPERIENCE

- Awarded the "**DREAM TEAM AWARD**" - **Virtusa's** Organizational Level Award for being an **Absolute Team Player**, **team productivity** with a holistic approach to the project assigned.
- Awarded the "**Leadership Award**" - **Virtusa's** Organizational level Award for being **proactive** and going the extra mile, for being **very interactive** and a **good communicator** [Business Case Study](#).
- For enthusiastic participation in the **Learnathon**, I received titled "**Champion of learners week**."
- Did volunteer work at a **Red Cross Blood Drive** to encourage blood donation.
- Played an **active role in planning the college fest** and was a part of the core committee team.

Gesture Recognition-Neural Networks Project (CNN & RNN):

Jun '22- Jul '22

- Assume you are a data scientist at a home electronics business that produces cutting-edge smart televisions. You want to create a cool feature in the **smart-TV** that can identify five distinct **user gestures** and allow users to manage the TV without using a remote
- The **camera positioned on the TV continually monitors the movements**. Each gesture is associated with a distinct command:
Thumbs up: Increase the volume, **Thumbs down:** Decrease the volume, **Left swipe:** 'Jump' backwards 10 seconds, **Right swipe:** 'Jump' forward 10 seconds, **Stop:** Pause the movie
- Key Achievement: Created a model with an **accuracy with 75%**

PROFESSIONAL EXPERIENCE

Software Engineer

Apr '22- Present

Virtusa Consulting Services Private Limited

Bangalore

Virtusa Corporation is a global information technology services company providing digital engineering and technology solutions to companies in the financial services, healthcare, communications, media, entertainment, travel, manufacturing, and technology industries.

Project name : Retail Bank statements Validation (CITI BANK)

The project's description:

- This automated process evaluates millions of bank statements every day for a prominent banking customer, where we validate the **bank statement** data with data available in **Oracle database** in parallel execution utilizing multi-threading
- The validation is based on many characteristics such as calculating customers' **capital interest**, **minimum payment due**, **APY**, and other customer information, among others

Libraries: Pandas, NumPy, PDFminer, Xlrd, Pycountry, hypothesis, sphinx, logger, xlswriter

Application: Oracle SQL Developer, Postman, PyCharm, Notepad++

Associate Engineer - Technology

Mar '21- Mar '22

Virtusa Consulting Services Private Limited

Chennai

Virtusa Corporation is a global information technology services company providing digital engineering and technology solutions to companies in the financial services, healthcare, communications, media, entertainment, travel, manufacturing, and technology industries.

Project name : Infinity (CITI BANK)

The project's description:

- To achieve the project goal, **ML libraries** were used to extract the relevant fields from the PDF utilizing **image processing** and enhancing model efficiency to extract the correct information

Libraries: Tesseract, Spacy and Ghost Scripts

Application: Mango DB, Postman, PyCharm, Notepad++.

MACHINE LEARNING AND PYTHON PROJECTS

- **Skin Cancer Detection** (using **CNN**)
- **House Price Prediction-Advance Regression** (ML)
- **Bike Sharing Case Study-ML Project (Linear Regression)**
- **Lead Scoring Case Study-ML Project (Logistic Regression)**
- **Telecom Churn Case Study- ML Project (Using Logistic Regression, Decision tree, Random Forest and XGboost)**
- **Bank Credit Case Study (Exploratory Data Analysis)**
- **IMDB Movie Case Study (Data Visualization)**
- **Bank Marketing Case Study (Data Visualization)**
- [Blog Project](#)