

Divyanshu Shrivastava *Data Scientist*

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📁 Professional Experience

- Data Scientist, Precognitas Health Pvt. Ltd.** *🔗* Jun 2023 – present
- Acted as the primary contact for USA-based clients, addressing their needs and queries. Optimized analytics and data storage on AWS to improve scalability and performance. Implemented predictive and prescriptive analysis to tackle complex challenges and developed multiple feature enhancements for the in-house product.
- Data Scientist, Xalt Analytics Pvt. Ltd.** *🔗* Sep 2021 – May 2023 | Indore, India
- Led a team of Data Science and Big Data professionals, assigning tasks and driving productivity while fostering a collaborative work culture. Acted as the primary contact for USA-based clients, addressing their needs and queries. Developed and deployed an in-house deep learning image-based object detection product, leading a successful pilot run and demonstration to Indian government officials.
- Data Science, KS Analytical Consulting** *🔗* Feb 2021 – Aug 2021 | Hospet, India
- Worked as an intern and freelancer, providing custom analytics solutions and engaging with US-based clients to understand their requirements and deliver tailored solutions.
- Data Analyst trainee, Codette Pharma Regulatory Analytics Pvt Ltd** Aug 2020 – Oct 2020 | Hyderabad, India
- I scraped text from user input files and utilized the Python Docx library for reading and writing data in Docx format. Additionally, I performed data munging and cleaning to ensure the accuracy and consistency of the data.
- Account Analyst, J.K.M (Indore) Reality Pvt. Ltd.** Jun 2017 – Aug 2019 | Indore, India
- Managed accounts payable/receivable processes for accurate and timely transactions, built strong vendor/client relationships to address inquiries efficiently, and prepared financial statements while assisting with policy implementation and compliance audits.

📁 Projects

- AI-Powered Health Analytics (Caliper), Precognitas Health Pvt. Ltd.**
- Managed Full Project Lifecycle:** Led end-to-end project management, from raw data acquisition to delivering prescriptive and descriptive analytics using Python, statistics, and machine learning techniques, generating valuable insights for improved client decision-making.
 - Prediction Model Development & Deployment:** Developed and deployed deep learning Models on structured and unstructured data to predicting Health Risk, SDOH Recognition, Quality Risk using MLFlow for training and inferences pipeline.
 - Generating Summaries:** Developed and tested a summarization model for generating patient EMR (Electronic Medical Record) summaries using LLaMA 2, OpenAI, and other large language models, ensuring it was production-ready.
 - Conducted Health Risk Analysis:** Performed comprehensive health risk assessments at both population and individual levels, utilizing findings to develop and implement tailored prescriptive measures to enhance overall health outcomes.
 - Developed Data Quality Solution:** Designed and implemented a data analysis solution to evaluate data quality, promoting proactive measures to ensure data integrity and leveraging insights for informed decision-making.
- Data-Driven Insights into Autism, Precognitas Health Pvt. Ltd.**
- Managed Projects End-to-End:** Handled all aspects of projects, from collecting raw data to performing descriptive analytics with Python, statistics, and data visualization. Delivered insights that improved client decision-making and evaluated the performance of autistic children.
 - Seamless Integration:** Successfully integrated visualizations and reports into the client's server, working closely with multifunctional teams to ensure everything ran smoothly.
 - Client Communication:** Worked directly with US-based clients to understand their needs and provided tailored solutions through detailed reports, meeting their specific requirements effectively.
- Xtract:(Product), Xalt Analytics Pvt. Ltd.**
- Upgraded and Integrated Deep Learning Algorithms:** Successfully enhanced Xtract's in-house product by integrating advanced deep learning algorithms and optimizing the pipeline with the latest library versions.
 - Collaborative Model Development:** Worked collaboratively on model development and backend integrations, ensuring seamless deployment of the updated system.
 - On-Site Demonstration:** Delivered a successful on-site demonstration to Indian Defence officials, showcasing the improved system's capabilities and effectiveness.
- Meter Reading Application: (Product), Xalt Analytics Pvt. Ltd.**
- Developed and Deployed Deep Learning Model:** Designed and implemented a deep learning image-based object detection algorithm using Python, TensorFlow, Object Detection, and OpenCV, achieving over 90% accuracy with the TensorFlow Lite model.
 - Pilot Run and Demonstration:** Led the planning and execution of a pilot run for the project, including coordinating the on-site demonstration to Indian government officials, showcasing the system's capabilities and delivering results.
 - Client and Stakeholder Engagement:** Managed all aspects of the project lifecycle, from arranging and planning the pilot run to providing final results, ensuring effective communication and successful execution.

🧠 Skills

Data Science Techniques: Predictive Analytics, **GenAI/LLM**, Data Science, Data Analytics, Machine Learning, Image Analytics, Deep Learning, Natural Language Processing (NLP), Flask, Tensorflow, OpenCV, Data Visualization, **Text Summarization**.

IDE Tools & Cloud: MLFlow, Power BI, Tableau, GitHub, MS Office, Visual Studio IDE, Jupyter Notebook, Postman, PowerBI, Docker.

Languages & DB: Python, PySpark, SQL, MongoDB, R Programming

Libraries: Pandas, NumPy, Matplotlib, Scikit-Learn, Scipy, Nltk, Spacy, Tensorflow, Keras, Flask, Django, Huggingface

🎓 Education

- Master of Business Administration (Business Analytics),** 2019 – 2021 | Indore, India
Devi Ahilya Vishwavidyalaya (NAAC A+ accredited)
- Bachelor's of Commerce (Taxation),** 2014 – 2017 | Indore, India
Devi Ahilya Vishwavidyalaya (NAAC A+ accredited)