# Viral Sherathiya *Data Scientist*

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## 🪪 Profile

With **2 years and 7 months** of hands-on experience in data science, I specialize in utilizing tools like **Power BI**, **Tableau**, **SQL**, **Python**, and advanced techniques such as **Predictive Modeling** and **NLP**. I have developed **recommendation systems**, **OCR (Optical Character Recognition)** systems, and **LLM (Large Language Model) chatbots**, enabling organizations to deliver personalized experiences and streamline interactions. Skilled in **data analytics tools** like Power BI, Tableau, and SQL, I excel at extracting actionable insights from complex datasets, optimizing processes, and creating scalable, **data-driven solutions** to solve business challenges and drive growth.

## 🧠 Skills

Data Visualization: Power BI | Tableau | Advanced Excel

Databases: SQL, VectorDB (Qdrant), MariaDB, MongoDB

Cloud & Virtualization: AWS (EC2, S3, ECR, Elastic Beanstalk, RDS) | Docker

Tools & Frameworks: LangChain, OCR, DVC, MLflow, Git/GitHub

Deep Learning: ANN | CNN | RNN | Transformers

Machine Learning: Classification | Regression | Clustering

LLM (Large Language Models)

MLOps Tools: DVC | MLflow

Version Control: Git/GitHub

API Development: FastAPI | Flask | streamlit

## 💼 Professional Experience

**Nexuslink Services India Pvt. Ltd.**
*Data Scientist*

09/2023 – present
Ahmedabad, India

- During my tenure at Nexus Link Services India Pvt. Ltd., I leveraged advanced technologies such as **OPENAI**, **LLM**, **OCR**, and **AI** to enhance web development projects across various technologies. I spearheaded a transformative **chatbot project** using these technologies.
- Additionally, I contributed to the development of a **Recommendation System** using **two-tower and hybrid models**, **Faiss vector indexing**, and integrated with **AWS EC2**, **Linux**, **S3**, **Docker**, and **RDS**.
- The company's commitment to pushing the boundaries of technology, combined with my contributions, ensured the delivery of innovative solutions, particularly in AI, OCR, and the overall recommendation system.

**Online PSB Loans (oplinnovate)**
*Data Analyst*

05/2022 – 06/2023
Ahmedabad, India

- Developed **18+ MIS Dashboards** monthly, processing datasets with **1.5M+ rows** using **SQL**, **Power BI**, and **Tableau**.
- Enhanced **financial reporting processes** by reducing **3P report generation time** by **50%**, enabling faster decision-making.
- Designed a **Jan Samarth Dashboard** integrating data from **MSME**, **Mudra**, and **Retail sectors**, improving reporting accuracy and cross-functional collaboration.
- Implemented **automated insights** using **SQL** and **Power BI**, uncovering trends to support **data-driven lending decisions**.
- Prepared and deployed **tables in AWS** for efficient data management and processing.
- Implemented **auto-refresh data functionality** and maintained **AWS channels for debugging reports**, ensuring smooth operations and accurate, up-to-date reporting.

**Technocolabs Software Pvt. Ltd.**
*Data Science Analyst*

04/2022 – 05/2022
Remote, India

- Created a predictive model for **startup acquisition status**, streamlining analysis using **Python** and deploying the solution via **Streamlit** on Heroku.
- Conducted data cleaning and exploratory data analysis to enhance model performance and reliability.
- Improved client satisfaction by designing robust machine learning solutions tailored to project requirements.

## 🎓 Education

**Master's in Data Science**                                                           10/2021 – 09/2022
*Jain University*

**Bachelor of Technology**                                                             07/2018 – 06/2021
*Junagadh Agricultural University*

## 📁 Projects

**Financial Data Analysis & Dashboard Creation**
- **Built and automated dashboards** for MSME, Mudra, Retail, and Performance reporting using Power BI and SQL.
- **Reduced manual effort** and improved data accuracy by automating MIS reporting processes.
- **Reduced report generation time** from 10 to 5-6 days, enhancing operational efficiency.
- **Provided automated insights**, making data comprehensible for non-domain personnel.
- **Unified data access** for banks, teams, and ministries, enabling more efficient decision-making.

**FIT Rank Credit Scoring**
- **Collaborated with CIBIL** to implement predictive models for MSME default probability using Python and SQL.
- **Designed interactive dashboards** in Power BI to visualize credit risk trends.
- **Enhanced lending decisions** by providing actionable insights into credit behavior.
- **Optimized credit scoring models** using data from MongoDB and SQL for improved precision.
- **Contributed to reliable lending practices** through the integration of predictive models.

**Chatbot Development with LLM**
- **Developed an advanced chatbot** using LangChain and OpenAI's LLM for natural language understanding.
- **Enhanced user engagement** through human-like conversations and intuitive interactions.
- **Streamlined user decision-making** with an easy-to-use API tool.
- **Integrated NLP techniques** to improve the chatbot's contextual understanding and responses.
- **Reduced response time** and improved user satisfaction by providing instant answers.

**Food Delivery Time Prediction (Personal Project)**
- **Built an end-to-end pipeline** for predicting food delivery times based on multiple features.
- **Deployed the model** on EC2 using Docker for scalability and efficiency.
- **Automated the deployment process** with CI/CD pipelines using GitHub Actions.
- **Integrated a user-friendly interface** for easy interaction with the system.
- **Optimized predictions** to improve delivery timelines, customer satisfaction, and operational efficiency.

**Recommendation System for Short Videos**
- **Built a transformer-based NLP model** for generating concise summaries from large text datasets.
- **Leveraged PyTorch and Hugging Face API** to develop an industry-leading summarization solution.
- **Deployed the model** with GitHub Actions for continuous integration and automation.
- **Enhanced text processing efficiency**, providing clear and relevant insights from vast datasets.
- **Reduced reading time** for users by providing accurate, succinct text summaries.

**Text Summarization Tool**
- **Built a transformer-based NLP model** for generating concise summaries from large text datasets.
- **Leveraged PyTorch and Hugging Face API** to develop an industry-leading summarization solution.
- **Deployed the model** with GitHub Actions for continuous integration and automation.
- **Enhanced text processing efficiency**, providing clear and relevant insights from vast datasets.
- **Reduced reading time** for users by providing accurate, succinct text summaries.

**Crop Image Classification (Personal Project)**
- **Engineered an automated crop classification system** achieving 89% accuracy using Transfer Learning with InceptionV3.
- **Improved crop recognition accuracy** by fine-tuning an existing model.
- **Developed a user-friendly API tool** to facilitate quick crop identification.
- **Enabled faster decision-making for farmers**, aiding in pest and disease management.
- **Promoted environmentally conscious farming practices** through improved crop identification and management.

## 🎗 Certificates

- Tableau for Beginners –
  Udemy

- Data Science with Python
  Complete Course –
  Fingertips

- Internet of Things in
  Agriculture Domain –
  Technex, IIT (BHU)