

# Sompal Ahirwar

sompalahirwar18@gmail.com — +91 7987745435 — linkedin.com/in/sompal-ahirwar-063291188  
— github.com/Somahirwar18

## Professional Summary

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Aspiring Data Scientist with hands-on experience in data analysis, machine learning, and NLP. Skilled in Python, SQL, and libraries such as Pandas, NumPy, and Scikit-learn. Proficient in data visualization using Power BI and Matplotlib, and familiar with deploying ML solutions on AWS. Passionate about solving real-world problems through data-driven approaches and continuous learning.

## Technical Skills

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- **Programming:** Python, SQL
- **Data Analysis:** Pandas, NumPy, Excel
- **Machine Learning:** Scikit-learn, XGBoost, LightGBM
- **Deep Learning:** TensorFlow, Keras, PyTorch
- **NLP & LLMs:** NLTK, spaCy, Transformers, LangChain
- **Frameworks:** FastAPI, Streamlit, Pydantic
- **Visualization:** Matplotlib, Seaborn, Power BI
- **Databases:** MySQL, MariaDB, MongoDB
- **Tools:** Git, AWS (S3, EC2)

## Professional Experience

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### RPS Business Solutions, Indore

*Data Scientist / Analyst Intern — Jan 2024 – May 2024*

- Performed data analysis on structured and unstructured datasets to extract business insights.
- Trained and evaluated NLP models using Scikit-learn and Python.
- Contributed to the design of internal analytics dashboards using Power BI.
- **Technologies:** Python, Pandas, NLTK, Scikit-learn, Power BI, SQL

### Buildtech Engineers, Ludhiana

*Assistant Data Analyst — Jun 2024 – Jun 2025*

- Collected, cleaned, and interpreted large datasets for business reporting.
- Identified data patterns and trends to improve decision-making efficiency.
- Supported internal reporting systems and data quality improvement initiatives.

### Infotact Solutions, Remote (Bengaluru) *Data Science & Machine Learning Intern — May 2025 – Aug 2025*

- Developed end-to-end ML pipelines for predictive modeling projects.
- Conducted data preprocessing, visualization, and model evaluation.
- Delivered insights through predictive models using TensorFlow and Scikit-learn.

## Projects

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### AI-Powered Task Management System (Infotact Solutions)

Built an NLP-based multi-output classification model to predict task labels from summaries. Integrated with a Streamlit dashboard for real-time insights and visualization. **Tools:** Python, NLTK, Scikit-learn, Streamlit, Pandas, Matplotlib

## WhatsApp Chatbot Assistant (RPS Business Solutions)

Developed a Flask-based AI chatbot integrated with WhatsApp API for customer engagement and automated query handling. Deployed the solution on AWS EC2 for scalability. **Tools:** Flask, Python, AWS EC2, REST API

## Academic Projects

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- **Heart Disease Prediction:** Logistic Regression and Random Forest for binary classification.
- **Movie Genre Classification:** TF-IDF + SVM model for text-based genre prediction.
- **Email Spam Detection:** NLP pipeline using Decision Trees for spam filtering.

## Education

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### M.Tech in Computer Science & Engineering (Pursuing)

Shri Krishna University, Chhatarpur, Madhya Pradesh

*2024–2026*

### B.Tech in Computer Science & Engineering

Pt. Dev Prabhakar Shastri College of Engineering & Technology, Chhatarpur

RGPV University, Bhopal, Madhya Pradesh

*2019–2023 — CGPA: 8.14*

## Certifications

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- Bignalytics IT Solutions – Master’s Program in Artificial Intelligence and Machine Learning
- RPS Business Solutions – Internship in Artificial Intelligence and Machine Learning
- Infotact Solutions – Internship in Data Science and Machine Learning