

RISHIKESH SONAWANE

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Portfolio : <https://portfolio-sigma-puce-46.vercel.app/>

Professional Summary

Innovative AI & Data Science Engineer With Detail-oriented and analytical Data Scientist with hands-on experience in machine learning, statistical analysis, and predictive modeling. Proficient in Python and its data science ecosystem (TensorFlow, Scikit-learn, Pandas, NumPy) to extract actionable insights from complex datasets. Eager to apply technical skills and a data-driven mindset to solve challenging business problems and contribute to impactful projects.

Professional Experience

Data Science Intern | Labmentix | Mumbai, Maharashtra (Remote)

June 2025 – Present

- Developed and implemented machine learning models to analyze complex datasets, improving predictive accuracy on key business metrics.
- Performed data cleaning, preprocessing, and exploratory data analysis on large-scale datasets to identify actionable insights and trends.
- Collaborated with senior data scientists to design and deploy data-driven solutions, contributing to projects aimed at enhancing customer personalization.
- Created compelling data visualizations and dashboards to effectively communicate findings to both technical and non-technical stakeholders.

Software Engineer Intern | Sapphire Infocom Pvt LTD | Mumbai, Maharashtra (Remote)

January 2025 – May 2025

- Contributed to the full software development lifecycle (SDLC) for client-facing web applications, from initial design to deployment.
- Wrote, tested, and maintained clean code for new features, which enhanced application functionality and user experience.
- Collaborated with a remote team to debug software issues and implement effective solutions, reducing reported bugs in assigned modules.
- Utilized version control systems like Git to manage codebases and contribute to team projects in an agile environment.

Projects

Brain Tumor Classification | *Python, Data Processing, EDA, Machine Learning, TensorFlow, Scikit-learn*

- Engineered an AI-powered system to classify brain tumors from MRI scans into four

- categories, achieving 93% accuracy with an optimized EfficientNetB0 model.
- Addressed significant class imbalance using SMOTE and validated model predictions with explainability techniques (Grad-CAM, SHAP) to ensure clinical interpretability.
- Designed a solution projected to accelerate diagnostic time by 20% and reduce radiologist workload, demonstrating clear business and clinical impact.

Integrated Retail Analytics & Demand Forecasting

- Developed and optimized a **Random Forest** forecasting engine to predict weekly sales with **95.8% R² accuracy**, providing actionable insights into key sales drivers like store size and seasonality.
- Deployed **K-Means Clustering** to segment 45 stores into data-driven personas ("Powerhouse," "Core," and "Developing" stores), creating a framework for targeted marketing and inventory strategies.
- Executed a full data science lifecycle on **421k+ records**, including data cleaning, feature engineering, and implementing an **Isolation Forest** model for anomaly detection to improve data integrity.
- **Technologies:** Python | Pandas | Scikit-learn | NumPy | Seaborn | Matplotlib

AI Voice Assistant | *n8n, Eleven Labs API, AI Automation*

- Designed and built a conversational AI voice assistant using the n8n workflow automation platform to orchestrate complex tasks and API calls.
- Integrated the Eleven Labs API to provide real-time, human-like voice synthesis, creating a sophisticated and seamless user experience.

Education

Vasantdada Patil Pratishthan's College of Engineering and Visual Arts (VPPCOEVA) | Mumbai, Maharashtra

Bachelor of Engineering (BE), Artificial Intelligence And Data Science | Expected 2027

GPA: 8.5/10

- Honors: Ethical Hacking (Cyber Security)

R.V. Nerurkar College | Dombivli, Maharashtra

HSC (Science)

Percentage: 81%

Skills

Technical Skills

- **Programming Languages:** Python, SQL,

- **Data Science & Machine Learning:** TensorFlow, Scikit-learn, Pandas, NumPy, Matplotlib
- **AI Specialties:** Generative AI Tools (AI Powered Data Science), AI Automation
- **Tools & Platforms:** Jupyter Notebook , Google Colab , Git, n8n,Zapier

Professional Skills

- Data Analysis
- Machine Learning
- Problem-Solving
- Team Collaboration

Spoken Languages

- **English:** Professional
- **Marathi:** Native