

Abhinav R

Data Scientist | Python • Machine Learning • Deep Learning

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PROFESSIONAL SUMMARY

Entry-level **Data Scientist** with hands-on experience in **machine learning, deep learning, and statistical modeling**. Skilled in **Python, SQL, and data visualization**, with strong foundations in **EDA, feature engineering, and model optimization**. Passionate about developing and deploying **AI-driven solutions** to enhance data-driven decision-making. Eager to contribute technical expertise and analytical problem-solving to real-world business challenges.

EXPERIENCE

Data Science Intern

DataMites , Bangalore | Jul 2025 – Present

- Executed **end-to-end data science workflows**, including **data preprocessing, EDA, and feature engineering** using **Python, pandas, and scikit-learn**.
- Enhanced **predictive modeling accuracy** by ~8% through **hyperparameter tuning, cross-validation, and model evaluation** techniques.
- Developed modular **data pipelines** for training and testing ML models, ensuring reproducibility and scalability in **Google Colab**.
- Applied **statistical analysis** to identify key variables impacting performance metrics and improve data quality.
- Collaborated with mentors to manage version-controlled projects using **Git**, ensuring consistent **version control** and team collaboration.

EDUCATION

Master of Computer Applications, Mahatma Gandhi University

Sep 2023 – June 2025

• Coursework: Machine Learning, Data Mining, Database Management, Artificial Intelligence.

CGPA: 8.38

Bachelor of Computer Applications, Mahatma Gandhi University

Oct 2020 – June 2023

CGPA: 7.15

TECHNICAL SKILLS

Programming: Python, SQL

Data Analysis: Pandas, NumPy, Matplotlib, Seaborn, scikit-learn, EDA

Machine Learning: Regression, Classification, Random Forest, XGBoost, Hyperparameter Tuning, Model Evaluation

Deep Learning: PyTorch, TensorFlow (basic), Neural Networks, CNNs

Databases: MySQL, MongoDB, SQLite

Version Control: Git, GitHub

Tools: Jupyter Notebook, Google Colab, Streamlit, Git, Jira, Power BI

Soft Skills: Communication, Team Collaboration, Problem Solving, Adaptability

PROJECTS

ML-Powered AI Agent for Diabetes Risk Prediction,

Tech Stack: Python, scikit-learn, pandas, Streamlit, Crew AI Agent (Grok LLM), Pydantic

- Designed and implemented an **end-to-end ML pipeline** integrating **data preprocessing**, **feature selection**, and **model evaluation** with **Random Forest**.
- Deployed the solution on **Streamlit**, providing an interactive dashboard for **data visualization** and real-time health insights.
- Achieved ~92% accuracy using optimized parameters through **hyperparameter tuning** and **cross-validation**.
- Integrated output validation via **Pydantic** to ensure reliable **model deployment** and consistent API performance

Breast Cancer Prediction using PyTorch Neural Network,

Tech Stack: PyTorch, NumPy, scikit-learn, CUDA, Matplotlib

- Developed a two-layer **Neural Network** achieving **96.9% test accuracy**, using **Adam optimizer**, **BCELoss**, and **StandardScaler** normalization.
- Implemented **data preprocessing**, **feature selection**, and GPU-accelerated training using **CUDA**.
- Evaluated model performance through **ROC-AUC**, **precision**, **recall**, and **F1-score** metrics to ensure reliable **model evaluation**.
- Created insightful **data visualizations** in **Matplotlib** to interpret feature correlations and classification boundaries.

Safe Guard - Online Safety Compliance Checker,

Tech Stack: Flutter, FastAPI, YOLOv8, Vosk, SQLite, Streamlit, Python

- Developed a **Flutter + FastAPI system** integrating **YOLOv8 (CV)** and **Vosk (STT)** for PPE compliance detection.
- Designed **SQLite backend**, automated reporting pipeline, and integrated **NLP + CV models** for cross-validation.
- Implemented **cloud-ready APIs** using **FastAPI**, enabling smooth integration with front-end systems.
- Applied **data visualization** techniques to generate compliance reports and identify missing safety gear.

CERTIFICATIONS

Certification in Artificial Intelligence and Machine Learning

GITH Global India Techno Hub
(GITH/AIC00299)

Diploma in Artificial Intelligence and Machine Learning

GITH Global India Techno Hub
(GITH/AID00325)