

Deepak Shrivas

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SUMMARY

Machine Learning and Data Analytics graduate with experience in model evaluation, performance analysis, ETL workflows, and dashboard creation. Hands-on experience developing and assessing machine learning models, analyzing data trends, and communicating insights through reports, visualizations, and research-driven projects. Strong foundation in Python, AI/ML, documentation, and analytical problem solving.

SKILLS

- **Programming:** Python, SQL
- **Data Analytics & Visualization:** Power BI, Advanced Excel, Data Visualization, Dashboard Development, Reporting
- **Machine Learning & AI:** Machine Learning, Deep Learning, LSTM, Transfer Learning, Regression Analysis, Hypothesis Testing, Model Evaluation, Predictive Analytics, Sentiment Analysis
- **Data Engineering:** ETL Pipelines, Data Processing, Data Validation, SQLAlchemy, SQLite, REST APIs, FastAPI
- **Libraries & Frameworks:** Pandas, NumPy, Scikit-Learn, TensorFlow, PyTorch, Transformers, Hugging Face
- **Documentation & Collaboration:** Technical Documentation, Stakeholder Communication, Research Documentation, Presentation Preparation

EXPERIENCE

Python Developer Intern

Jun 2025 – Dec 2025

[Greensoft Systems](#) | remote, India

- Developed Python-based automation and data processing workflows to streamline backend operations and reduce manual effort.
- Built and integrated REST APIs for data ingestion, transformation, and retrieval across multiple application modules.
- Collaborated with cross-functional teams to deliver scalable backend solutions while maintaining code quality and technical documentation.

Data Analyst Intern

Jul 2024 – Sep 2024

[Main Flow Pvt. Ltd](#) | India (Remote)

- Contributed to the development of LSTM-based predictive models using healthcare datasets and medical records as part of a collaborative analytics project.
- Performed data preprocessing, feature preparation, and model evaluation to support machine learning experimentation and predictive analysis workflows.
- Designed dashboards, analytical reports, and presentation materials to communicate model outputs and key findings to project stakeholders.

PROJECTS

AI-Powered Reddit Insight Discovery Platform, [Link](#)

- Built an asynchronous data pipeline using FastAPI, SQLAlchemy, SQLite, Playwright, and APScheduler to collect, process, and store Reddit discussions for automated trend discovery.
- Developed REST APIs supporting sentiment-based filtering, categorization, and retrieval of processed content, enabling structured analysis of large volumes of unstructured social data.
- Designed an interactive search and filtering interface enabling efficient exploration of sentiment-classified discussions and emerging trends.

Financial Document Intelligence System, [Link](#)

- Developed an AI-powered financial document analysis platform utilizing Large Language Models and Retrieval-Augmented Generation (RAG) techniques.
- Automated extraction, classification, and retrieval of financial information from unstructured documents to improve information accessibility.
- Implemented semantic search and document intelligence workflows to support efficient financial data exploration and insight generation.

DopplerNet: CNN-Based Drone Analysis, [Link](#)

- Developed and evaluated ResNet50 and EfficientNetV2 models for classification of 6 aerial object categories using a dataset of 4,800 radar spectrogram images.
- Applied transfer learning, Grad-CAM explainability, and 5-fold cross-validation to assess model robustness and interpret classification decisions.
- Evaluated model performance using precision, recall, and F1-score metrics while identifying overfitting risks and model generalization limitations through structured experimentation.

RESEARCH EXPERIENCE

Comparative Analysis of Deep Learning Architectures for Radar-Based Drone Classification

- Conducted comparative research evaluating ResNet50 and EfficientNetV2 architectures for micro-Doppler based drone classification.
- Applied model evaluation techniques including precision, recall, F1-score analysis, Grad-CAM explainability, and cross-validation methodologies.
- Prepared a research manuscript documenting model development, evaluation methodology, performance metrics, and explainability analysis under faculty supervision.

ACHIEVEMENTS & CERTIFICATIONS

- Team Leader – Smart India Hackathon (SIH) 2024
- Led cross-functional collaboration and project execution within a multidisciplinary team environment

EDUCATION

B.Tech , Information Technology | Dronacharya Group of Institutions (AKTU) , Greater Noida, India

2021 – 2025

