

Harsh Shrishrimal

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📄 SUMMARY

Graduate student in **Data Science** with hands-on experience in **training** and **deploying machine learning models**, **deep learning systems**, and working with **large-scale datasets**. Proficient in building **ML pipelines** using **TensorFlow**, **PyTorch**, and **cloud platforms**. Passionate about applying **AI** to real-world problems and contributing to fast-paced, research-driven teams.

🎓 EDUCATION

University of Maryland, College Park, *MS in Data Science*

May 2026 | GPA - 3.8/4.0

Coursework: Probability and Statistics, Machine Learning, Algorithms in Data Science, Big Data Systems, Data Representation

Savitribai Phule Pune University, *BE In Computer Science*

Jun 2023 | GPA - 3.2/4.0

Coursework: Deep Learning, Database Management Systems, Business Intelligence, Data Science and Big Data

💼 EXPERIENCE

Machine Learning Engineer at Shanti Technologies

Jul 2023 – Jun 2024 | Pune, India

- Trained **demand forecasting models** in **TensorFlow** using historical sales data to minimize stockouts for perishable goods
- Developed **dynamic pricing algorithms** in **Python**, integrating seasonal and behavioral logic via custom **APIs** and rules
- Designed scalable **ETL pipelines** with **Apache Airflow** & **Google Cloud Functions** to automate inventory and billing data flow
- Applied **time-series modeling** and built **ML-based recommendation systems** supporting loyalty programs and promotions

Data Science Intern at Code Clause

Dec 2022 – Jun 2023 | Pune, India

- Trained and deployed **deep learning models** on the **BraTS MRI** dataset using **Keras** and **Flask** for healthcare analytics
- Built **Random Forest** and **XGBoost** models with **scikit-learn**, improving **churn prediction accuracy** by **20%**
- Designed a **CNN-based age/gender predictor** with **TensorFlow** and **OpenCV**, achieving **92% accuracy** in real-time
- Supported **A/B testing setup** and **collaborated** with analysts to evaluate model performance and user impact

📁 PROJECTS

AI-Powered Stock Trading Bot

- Built a **DQN-based trading agent** in **TensorFlow**, trained on historical market data using **technical indicators** like EMA/MACD
- Processed noisy time-series data using **NumPy** and implemented a reward structure for policy improvement
- Deployed backtesting framework integrated with **live REST APIs** to simulate real-world trading and monitor performance

Handwritten Character Recognition

- Created a real-time OCR app using **Flutter**, **CameraX**, and **Google ML Kit API** for accurate handwritten character recognition
- Applied image preprocessing techniques in **OpenCV** such as grayscale conversion, binarization, and contour detection
- Deployed on-device **ML inference pipeline** using **Android Studio**, optimizing latency and model size for mobile execution

Loan Approval Prediction

- Developed **classification models** using **SVM**, **kNN**, and **PCA** in **Scikit-learn** to predict credit risk based on financial attributes
- Cleaned tabular loan datasets using **Pandas**, performed **outlier detection**, normalization, and **dimensionality reduction**
- Assessed model quality with **ROC-AUC**, **confusion matrices**, and stratified **cross-validation** to ensure balanced predictions

📖 PUBLICATIONS

Review on Handwritten Character Recognition

Harsh Shrishrimal, et. al, "Review On Handwritten Character Recognition," IJIRCCCE, Vol. 11, Issue 3, March 2023, DOI: 10.15680/IJIRCCCE.2023.1103081

🧠 SKILLS

Programming Languages: Python, R, SQL, C++, Java, JavaScript

Data Analytics & Visualization: Tableau, Power BI, Google Data Studio, Matplotlib, Seaborn

ML & Deep Learning: TensorFlow, PyTorch, Scikit-learn, XGBoost, LightGBM, OpenCV

AI Specializations: Supervised & Unsupervised Learning, Reinforcement Learning, LLMs, NLP, Generative AI, Model Deployment

Big Data & Cloud: Google Cloud (BigQuery), AWS, Hadoop, Spark, ETL Pipelines

Software & Tools: Apache Airflow, Docker, Jupyter, Git, REST APIs, Excel, PowerPoint

📜 CERTIFICATIONS

Artificial Intelligence Fundamentals — IBM | **Big Data 101** — IBM | **Data Analytics and Visualization Job Simulation** —

Accenture North America | **Databases for Developers: Foundations** — ORACLE | **Hadoop 101** — IBM