

Ashish Pise

Computer Engineering Student | Artificial Intelligence & Data Science

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Profile

Computer Engineering student focused on Artificial Intelligence and Data Science, with hands-on experience architecting end-to-end ML pipelines and large-scale recommendation systems — including a collaborative-filtering engine on 24M+ ratings achieving an 8% improvement over baseline. Proficient in Python, SQL, and Scikit-learn, with engineering fundamentals spanning data pipelines to deployed, tested applications.

Education

B.E in Computer Engineering | PDEA's College of Engineering Manjari, Pune (Expected 2027)

- Relevant Coursework: Linear Algebra, Probability & Statistics, Database Management Systems (DBMS), Data Structures & Algorithms, Object-Oriented Programming, DSBDA, Artificial Intelligence.

Professional Certification in AI-Data Science | Intellipaat & DRISHTI CPS (IIT Indore) | 08/2025 – 08/2026

Skills

- **Languages & Databases:** Python, T-SQL, MS-SQL, SQLite, MySQL
- **Machine Learning & Data:** Scikit-learn (Random Forest, XGBoost), Pandas, NumPy, Collaborative-Filtering, Statistics, Tensorflow, NLP, Transformers
- **Visualization & Tools:** Power BI, Matplotlib, Seaborn, Django, Git, Jupyter, GitHub

Professional Experience

Data Analyst Intern | Sushiv Technologies, Pune | 02/2026 – 03/2026

- Engineered an end-to-end machine learning pipeline evaluating Linear Regression, Random Forest, Gradient Boosting, and XGBoost to forecast revenue and dynamically extract feature importance from 5,000+ sales records.
- Deployed a secure Streamlit and SQLite analytics dashboard featuring secure PBKDF2-HMAC authentication and automated in-memory PDF reporting engine, validated by robust Selenium and unittest QA pipelines.

Web App Developer (Python/Django Intern), BrainyBeam Technologies | 05/2025 – 06/2025

- Engineered scalable Django backend services (MVT architecture) with MySQL, implementing 9 relational models and 20+ routes to streamline user authentication and data querying.
- Integrated the Razorpay payment gateway API into the Django backend, configuring secure routing, transaction handling, and automated checkout flows for online user orders.

Projects

Netflix Movie Recommendation Engine (Python, Machine Learning, Collaborative Filtering)

- Built a large-scale recommendation engine leveraging the Netflix Prize dataset (24M+ ratings, 480K+ users, 17K+ movies) using collaborative filtering and matrix factorization.
- Engineered memory-efficient data pipelines to handle sparse user-item matrices, successfully processing 24M ratings with limited RAM and runtime constraints.
- Achieved a Root Mean Square Error (RMSE) of 0.9921 using Ensemble model (SVD+ALS) on held-out validation ratings, outperforming baseline predictive models by 8%.

A/B Testing Decision Engine (Python, Statistical Modeling)

- Architected a full-stack A/B testing decision engine in Python, simulating control vs. treatment conversion behavior across 1000+ synthetic user records.
- Built a two-sample hypothesis testing pipeline using SciPy (t-test, p-value analysis, 95% confidence intervals) that outputs statistically validated accept/reject decisions in < 1 second per experiment.

Certificates

- **SAP Code Unnati** - Advanced Program, Foundation Program (Python, AI and SAP Chatbot)
- **NIIT Foundation** - Data Analyst Basics
- **MS-SQL Certification** - Intellipaat (IIT Indore Drishti CPS & Microsoft)