

Priyanka Pandey

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SUMMARY

Software Engineer with 7+ years of experience, transitioning into ML/Data Science. Skilled in recommendation systems, NLP embeddings, and end-to-end ML apps. Completed MIT Applied Data Science Program and built EchoFinder, a music recommendation platform. Actively seeking ML/Data Science opportunities.

SKILLS

ML & Statistics	Classification, Regression, Clustering, Recommendation Systems, Time Series Analysis, NLP, Statistical Analysis
Programming	Python (NumPy, Pandas, Scikit-learn), FastAPI, SQL, JavaScript, React Native, Express.js, Node.js, Redux
Data Engineering	ETL Pipelines, REST API, MongoDB, JSON/XML Data Processing, Data Preprocessing & Cleaning
Data Visualization	Matplotlib, Seaborn
Cloud & Deployment	AWS (EC2, S3, Rekognition), Google Firebase (Cloud Messaging, Analytics, Maps), Google Play Console, Apple App Store Connect
Tools & Platforms	Git, GitHub, Splunk, Postman, SoapUI, JIRA, VS Code, Jupyter Notebook

EXPERIENCE

Isodate Inc. | Lead Software Engineer (Remote)

Aug 2022 - May 2024

- Built and shipped cross-platform mobile app with 5.7K+ downloads, using React Native
- Integrated AWS EC2, S3, additionally Rekognition to enable content moderation
- Implemented Firebase Cloud Messaging, Analytics, & Crashlytics
- Delivered live event support, reducing user-reported issues and enabling smooth event execution
- Collaborated with external partners (Lu.Ma, Vonage, CometChat) to scale platform capabilities

Infosys Limited | Technology Analyst (Pune, India)

Aug 2021 - Jul 2022

- Fine-tuned GPT-J to build an ML-based Test Script Generator, converting natural language to Selenium scripts with 95% accuracy, reducing manual QA workload
- Developed a Python + ANTLR transpiler converting VB6 to Java, accelerating legacy modernization initiatives

Infosys Limited | Senior Associate Consultant (Pune, India)

Mar 2019 - Jul 2021

- Led offshore integration development for a US healthcare client using IBM Middleware, ensuring high-volume claim processing reliability
- Built Splunk dashboards and automated alerts to identify system bottlenecks, improving visibility and reducing debugging time
- Received Insta Award for exceptional performance and delivery quality

IBM India Pvt. Ltd. | Associate System Engineer (Pune, India)

Oct 2016 - Feb 2019

- Developed 17 enterprise integration applications for retail modernization
- Built analytics dashboards for resource utilization and workforce planning, adopted by leadership
- Earned two Manager Choice Awards for high-visibility data visualization tools

PROJECTS

EchoFinder - AI Music Recommendation System (<https://github.com/prnk04/EchoFinder>)

- Built content-based recommendation engine using semantic embeddings (all-MiniLM-L6-v2) and cosine similarity across 30K+ tracks
- Developed FastAPI service exposing ML inference endpoints for real-time recommendations
- Implemented an Express.js service layer managing song retrieval, and playlist operations
- Built a React Native mobile interface providing a clean, intuitive UI receiving personalized recommendations.

Music Recommendation System - MIT Capstone Project

- Built collaborative filtering models, SVD Matrix Factorization, and Clustering-based recommenders
- Evaluated models using precision@K, recall@K, and F1 score.
- Tuned hyperparameters to improve recommendation accuracy
- Applied feature engineering on user-item interactions for improved personalization
- Implemented using Python, Pandas, Scikit-learn, Surprise

PulsePlay - React Native Music Player (<https://github.com/prnk04/PulsePlay>)

- Developed a cross-platform music player with playlists, categories, and smooth playback
- Implemented using React Native and Redux Toolkit for state management

EDUCATION & CERTIFICATES

MIT Applied Data Science Program	Sep 2024 - Dec 2024
Skills: Machine Learning, Statistics, Deep Learning, Neural Networks, Python Programming	
B.Tech - Computer Science & Engineering	2012-2016
BTKIT Dwarahat, Uttarakhand	
AWS Certified Cloud Practitioner	Dec 2021