

Priyanka Pandey

prnkpandey00@gmail.com | +91 7895482254

<https://www.linkedin.com/in/priyankapandey03/> | <https://github.com/prnk04>

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
<ul style="list-style-type: none">Built and shipped cross-platform mobile app with 5.7K+ downloads, using React NativeIntegrated AWS EC2, S3, additionally Rekognition to enable content moderationImplemented Firebase Cloud Messaging, Analytics, & CrashlyticsDelivered live event support, reducing user-reported issues and enabling smooth event executionCollaborated with external partners (Lu.Ma, Vonage, CometChat) to scale platform capabilities	
Infosys Limited Technology Analyst (Pune, India)	Aug 2021 - Jul 2022
<ul style="list-style-type: none">Fine-tuned GPT-J to build an ML-based Test Script Generator, converting natural language to Selenium scripts with 95% accuracy, reducing manual QA workloadDeveloped a Python + ANTLR transpiler converting VB6 to Java, accelerating legacy modernization initiatives	
Infosys Limited Senior Associate Consultant (Pune, India)	Mar 2019 - Jul 2021
<ul style="list-style-type: none">Led offshore integration development for a US healthcare client using IBM Middleware, ensuring high-volume claim processing reliabilityBuilt Splunk dashboards and automated alerts to identify system bottlenecks, improving visibility and reducing debugging timeReceived Insta Award for exceptional performance and delivery quality	
IBM India Pvt. Ltd. Associate System Engineer (Pune, India)	Oct 2016 - Feb 2019
<ul style="list-style-type: none">Developed 17 enterprise integration applications for retail modernizationBuilt analytics dashboards for resource utilization and workforce planning, adopted by leadershipEarned 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