Nandita Dilip Bharambe

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Professional Summary

Results-driven Software Developer with 2.5+ years of experience at Barclays, specializing in ETL optimization, workflow automation, and full-stack application development. Proven track record of improving operational efficiency by 63% through scalable solutions using Java, SQL, Perl, and OpenShift. Adept at applying machine learning, data analysis, and cloud technologies to enhance system performance and data-driven decision-making.

Education

MS in Information Systems - California State University, Long Beach, California — Expected: May 2026
Bachelor in Information Technology - Usha Mittal Institute of Technology, SNDT — June 2021

Skills

- **Programming Languages**: Java, Python, React, Typescript, SQL, Perl
- **Backend & Data Engineering**: Spring Boot, RESTful APIs, JSON, XML, TailwindCSS, ETL Pipelines, Shell Scripting, Microservices
- **Cloud & DevOps**: AWS (EC2, S3, Lambda, SageMaker), Docker (Basics), Kubernetes (Basics), OpenShift, TDD
- **Databases & Tools**: MySQL, PostgreSQL, MongoDB, Git (GitHub, GitLab), VS Code, IntelliJ, JIRA, Confluence
- **Machine Learning & AI**: Scikit-learn, TensorFlow, Keras, Pandas, NumPy, Hugging Face
- **Data Analysis & Data Visualization**: Excel (Pivot Tables, VLOOKUP), Tableau, Data Cleaning, Data Transformation, Data Integration, Data Validation

Professional Experience

Barclays

Software Developer - BA4 — Mar 2024 - Aug 2024

- Delivered a critical middleware integration by modernizing legacy Java components and enabling cross-system data flow, accelerating stakeholder driven feed enhancements by 30%.
- Created and deployed OpenShift containers for production workloads, reducing manual deployment effort and aligning with DevOps best practices.
- Spearheaded the development of a custom GUI for the DataOps team, enabling secure, self-service data modification and reducing turnaround time by 70% by eliminating manual approval workflows.
- Mentored 5+ new team members by streamlining onboarding, system setup, and team integration, leading to 100% faster ramp-up and improved team productivity.
- Facilitated multiple knowledge transfer (KT) sessions covering domain workflows, architecture, and coding standards, ensuring seamless handover and project continuity. cross-functional coordination.

Software Developer - BA3 — Aug 2021 - Feb 2024

- Developed and optimized ETL pipelines in the Enterprise Security Master (ESM) system to process upstream data from Bloomberg, Refinitiv, and ESMA, increasing processing efficiency and reducing downstream latency by 25%.
- Led user acceptance testing (UAT) and runback simulations for regulatory events, ensuring 100% compliance and zero production defects.
- Owned vendor change management by analyzing impact of upstream notifications and proactively coordinating mitigation strategies with IT, DataOps, and downstream teams, avoiding system outages during 6+ major vendor updates.
- Acted as the release coordinator for multiple deployments, aligning stakeholders across functions and ensuring timely, error-free production releases under tight deadlines.
- Resolved high-priority production issues as the on-call support lead, analyzing logs, coordinating with cross-functional teams, and documenting fixes on Confluence to reduce recurrence by 40%.
- Recognized as the Subject Matter Expert (SME) for vendor integration processes, becoming the go-to person for resolving complex data handling and compliance queries.
- Practiced Agile methodology with daily standups and task tracking via GenJIRA, consistently delivering sprint goals and improving team velocity by 20%.

Projects

AI-Powered Personalized Content Recommender — Mar 2025

- Developed a hybrid recommendation engine using Python (FastAPI) and MongoDB with Content-Based + Collaborative Filtering, improving relevance by 32%.
- Applied Explainable AI and real-time IMDb data for transparency and enhanced user experience in a full-stack Next.js frontend.
- Deployed the application using AWS EC2 and Vercel for scalable, production-grade delivery.

AI Drug Interaction System — Mar 2025

- Designed a predictive model using Python, scikit-learn, and TensorFlow with Association Rules and Decision Trees, improving accuracy by 28%.
- Developed a Flask API to integrate interaction alerts into healthcare analytics tools, enabling early detection of high-risk combinations.
- Reduced patient risk by operationalizing insights from pharmaceutical datasets using MongoDB for data handling.

US Job Market Analysis — Feb 2025

- Conducted large-scale analysis of 2020–2023 labor data using Python (Pandas) and SQL, integrating BLS & Census datasets.
- Built interactive Tableau dashboards to visualize workforce trends, increasing stakeholder comprehension by 25%.
- Delivered insights to support strategic economic planning and data-driven policy formulation.

Achievements

- Participated in Mega hackathon 2025 - Hosted on Devpost — Mar 2025
- Alteryx Designer Core Certification — Sept 2024