

Chetana Chaudhari

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Education

Maharashtra Institute of Technology, Pune

Aug 2016 – Jun 2020

- Bachelor of Engineering in Computer Science | GPA: 9.35/10

Professional Experience

Barclays Global Service Center | Senior Software Engineer | Pune, India

Mar 2024 – Present

Data Miner Pro

- Designed and developed a scalable test data mining utility using Python and Django, reducing data turnaround time by 30% for Cards Operations teams.
- Collaborated with cross-functional stakeholders to gather requirements and design components, leading to enterprise-wide adoption of the solution.
- Built and exposed RESTful APIs to enable seamless data access for internal agents, significantly improving case resolution efficiency.

Softkey Migration

- Modernized legacy Softkey Agent systems by migrating to Java and Spring Boot, improving scalability, maintainability, and long-term supportability.
- Executed multiple Proof-of-Concepts, including Java 8 to Java 21 migration, OpenAPI (OAS) adoption, and Domain-Driven Design (DDD), resulting in improved performance and cleaner service boundaries.
- Led and mentored a team of 5 developers, conducting code reviews, enforcing best practices, and ensuring high-quality, on-time delivery.

Barclays Global Service Center | Software Engineer | Pune, India

Nov 2021 – Mar 2024

Offer Management Systems

- Optimized legacy systems using multithreading and caching strategies, reducing API response time by 50% and lowering operational overhead.
- Implemented REST APIs to fetch and fulfill offers using Java and Spring Boot, enhancing feature delivery and system integration.

Barclays Global Service Center | Graduate Analyst | Pune, India

Aug 2020 – Nov 2021

Customer Technology Applications

- Automated monitoring and alerting workflows using Shell scripting and dashboards, improving observability across 250+ applications and reducing manual effort..
- Diagnosed and resolved critical production issues under strict SLAs, contributing to a 20% reduction in operational risk.
- Recognized by business stakeholders for rapid incident resolution and technical ownership.

Skills and Competencies

- **Languages:** Java (8-21), Python, C++, SQL
- **Frameworks & Technologies:** Spring Boot, Spring MVC, Spring Data, Spring AOP, Django
- **Databases:** PostgreSQL, MySQL, SQL, MongoDB
- **Data Science Libraries:** NumPy, Pandas, Scikit-learn, TensorFlow, Keras
- **Cloud & Containers:** Docker, AWS, Openshift
- **DevOps & CI/CD:** Jenkins, Git, Maven, Gradle, Shell Scripting
- **Frontend:** HTML, CSS, Bootstrap, ReactJS
- **Development Practices:** Agile/Scrum, Code Reviews, Performance Optimization, Debugging & Troubleshooting

Publications

- Chaudhari, C., Bora, A., Nirali, A., Gavade, D., Vaishnav, V. (2022). A Time Dependent Epidemiology Model for Hospital Resource Management in Usual Scenarios and Pandemic. In: Kumar, A., Senatore, S., Gunjan, V.K. (eds) ICDSMLA 2020. Lecture Notes in Electrical Engineering, vol 783. Springer, Singapore, 2021. (https://doi.org/10.1007/978-981-16-3690-5_44)
- Chaudhari, C., Ambadkar, A., Ghadage, M., Bhalekar, M. (2021). A Model for Automated Food Logging Through Food Recognition and Attribute Estimation Using Deep Learning. In: Fong, S., Dey, N., Joshi, A. (eds) ICT Analysis and Applications. Lecture Notes in Networks and Systems, vol 154. Springer, Singapore, 2020. (https://doi.org/10.1007/978-981-15-8354-4_58)

Certifications

- **Data Engineering, Big Data, and Machine Learning on GCP** by Google Cloud. Jun 2020
- **Tools of Computing** by Persistent Systems. Jun 2019

Research Projects

A Time Dependent Epidemiology Model for Hospital Resource Management Jun 2020

- Developed a hybrid model combining Bidirectional LSTM and a modified SIR algorithm to forecast patient inflow and medical resource needs in both normal and pandemic scenarios.
- Deployed a web application enabling hospitals to track inventory in real time, enhancing resource allocation process.
- Technologies: Python, TensorFlow, Flask, AWS RDS

Eatiza: Deep Learning-Based Food and Nutrition Analysis Platform Mar 2020

- Developed and trained convolutional neural networks (CNN) for accurate food image classification and shallow neural networks (Continuous Bag-of-Words) for food attributes estimation.
- Technologies: Python, TensorFlow, React Native, Flask, PostgreSQL

Leadership and Achievements

Barclays Codeathon Sept 2023

- Managed a team of 8 developers in a Barclays Hackathon and achieved finalist position by delivering a production-ready case management solution for finance agents.

Smart India Hackathon Mar 2019

- Secured first place in the Smart India Hackathon 2019 by developing a practical solution focused on hospital efficiency and demand-based supply allocation.

Volunteer Experience

- Volunteered with MCUG (MIT Computer User Group) and conducted technical sessions on Unix for a class of 20-40 students.
- Volunteered in company-led cleanup drives after large public events, helping to improve community hygiene.