

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
- **Coursework:** Design and Analysis of Algorithms, Data Structures and Algorithms, Distributed Systems, Database Management Systems, Machine Learning

Research Interests

- Machine Learning, Natural Language Processing, Distributed Systems

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

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)

Professional Experience

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

Mar 2024 – Present

Data Miner Pro

- Led and developed a test data mining utility using Python and Django to streamline data gathering process, reducing turnaround time by 30%.
- Collaborated with cross-functional teams in Card Operations to collect data and use cases, designing a scalable solution later adopted across the entire domain.
- Designed and implemented RESTful APIs for Barclays agents, improving case resolution time across the Cards operations domain.

Softkey Migration

- Built application to replace legacy softkey systems using the Java and Spring Boot framework, enhancing system scalability.
- Performed Proof-of-Concepts such as Java 8 to 21 migration, OAS adoption, and Domain-Driven Design implementation, improving system performance and maintainability.
- Led and mentored a team of 5 developers, providing technical guidance and conducting code reviews to ensure high-quality delivery.

Barclays Global Service Center | Software Engineer | Pune, India

Nov 2021 – Mar 2024

Offer Management Systems

- Optimized legacy systems through multithreading and caching mechanisms, reducing response time by 50% and lowering maintenance overhead.
- Implemented application to fetch and fulfill offers, enhancing feature delivery and system integration.

Customer Technology Applications

- Automated monitoring tasks using Shell scripting and dashboards, increasing observability across 250+ applications and reducing manual effort.
- Debugged and resolved critical live issues under tight SLAs; efforts contributed to a 20% reduction in overall operational risk and were recognized by business stakeholders.

Skills and Competencies

- **Languages:** Python, Java, C++, SQL
- **Data Science Libraries:** NumPy, Pandas, Scikit-learn, TensorFlow, Keras
- **Frameworks:** Django, Spring Boot, Spring, Docker
- **DevOps:** Jenkins, Git, Maven, Gradle, Shell Scripting
- **Frontend Technologies:** HTML, CSS, Bootstrap, ReactJS

Certifications

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

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.