

# Ritika Deshpande

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## EDUCATION

**Columbia University, MS in Computer Science | New York, USA | GPA: 3.9** Dec 2024

- Courses: Cloud Computing and Big Data, Advance Software Engineering, Programming Languages and Translators, Databases, Applied Machine Learning, NLP, Advance Databases, Data Visualization.

**University of Pune, B.E in Computer Engineering | Pune, India | GPA: 3.9** Aug 2021

- Courses: OOP, Databases, Data Structures and Algorithms, ML, Advance Algorithms, Computer Networks.
- Activities: Member of ACM, Smart India Hackathon Winner 2020, President of Rotaract Club.

## EXPERIENCE

**Deutsche Bank Pvt. Ltd. Pune, India Senior Analyst - Software Engineer | Spotlight Award** Aug 2022 – Jun 2023

- Integrated fault-tolerant APIs, resolving defects promptly for 100% customer satisfaction. Authored technical documentation, improving collaboration and reducing development time.
- Analyzed system workflow, identifying opportunities for optimization and increasing system efficiency.
- Proactively engaged with cross-functional teams, delivering high-quality code and completing 98% of tasks ahead of schedule. Implemented agile methodologies to ensure adaptability and efficiency in task completion.

**Deutsche Bank Pvt. Ltd. Pune, India Technology Analyst | DB Cloud Engineer** July 2021 – July 2022

- Developed a checks and audit tool for ordering controls within the PTC squad, utilizing restful APIs.
- Designed a reinforcement learning-based Chatbot, reducing manual intervention by 40% and improving issue resolution rates for the L2 team. Completed GCP training, showcasing cloud expertise
- Managed a centralized Oracle database, ensuring data accuracy, integrity, and accessibility. Automated email triggers for critical task reminders using constructed shell scripts.

**AirMed Solutions Pune, India Android Developer Intern** May 2020 – July 2020

- Collaborated closely with development team for capturing vital data and storing in HL7 format in database.
- Created responsive and intuitive UI components, help enhance overall user experience by 80% for ongoing healthcare product in Android studio.

## PROJECTS

**Trivia.ai Knowledge Assessment Tool SBU MLH 2024** Feb 2024

- Developed trivia.ai, a knowledge assessment tool utilizing Google's PaLM2 LLM model, achieving a 95% quiz accuracy.
- Applied a serverless architecture on Google Cloud Platform (GCP), reducing infrastructure costs by 40% while handling a 50% increase in user traffic.
- Led cross-functional collaboration, delivering the end-to-end product within a 3-days timeframe, and achieving a 99% user satisfaction rating.

**GitGlance Github Contribution Discovery App** Nov 2023

- Constructed a serverless cloud architecture using AWS Lambda, API Gateway, SQS, and Kinesis for efficient user interactions. Integrated AWS Personalize for recommendations, leveraging DynamoDB for dynamic data storage.
- Utilized S3 for scalable and secure storage, gaining hands-on experience in configuring and optimizing AWS services for seamless project execution.

**DBCon Tool to Convert Conventional Database to Graph Databases** Jul 2021

- Leveraged Python libraries for 99% data consistency in extracting metadata and records from the source database.
- Oversaw the migration of data to Neo4j, prioritizing data integrity and cost reduction. Led project planning, team coordination, and responsibilities assignment.

**Voice-based Prescription Bajaj Finserv Health Ltd | Smart India Hackathon 2020** Aug 2020

- Led the winning team among 8 final contenders, with around 2 million student participation. Integrated Google Speech-to-text for accurate transcription of doctors' words.
- Applied text extraction and NLP techniques to ensure 90% precision in prescription content. Enforced smart recommendations based on entered data. Performed data analysis on dataset of 15,000 medicines.

## SKILLS

Languages	Java, Python, SQL, C++, HTML5/CSS, JavaScript, React, Unix, Shell
Databases	Oracle, MySQL, MongoDB, Neo4j, Firebase, NoSQL, PLSQL, SQL Server, Elasticsearch
Other Tools	SpringBoot, GitHub, Bitbucket, Android, JIRA, Agile, Postman, Machine Learning, Natural Language Processing, Cloud Computing, AWS, Google Cloud, Docker, Kubernetes, Recommendation System, JUnit, Mockito, Information Retrieval, Information Extraction, Web Search, Deep Learning
Soft Skills	Time Management, Problem-solving, Documentation, Engaging Presentation, Leadership, Communication.