

Ganesh Kudtarkar

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ganesh-kdt.github.io/Personal-Portfolio

EDUCATION

University at Buffalo The State University of New York
M.S. in Computer Science and Engineering

Buffalo, NY
Aug 2024 - Dec 2025(Expected)

University Of Mumbai, Mumbai
B.E in Electronics and Telecommunication; GPA: 8.32/10

Mumbai, India
Jul 2016 - Oct 2020

EXPERIENCE

Software Engineer, JForce Solutions, Mumbai, India

Oct 2021 - Apr 2024

- **Order Management System:** Automated order management process for an e-learning platform using Java and Spring Boot by integrating REST APIs with third-party logistics services, increasing orders from 20-30 to 400 daily, and automating airway bill generation/upload to AWS.
- **Chat Application:** Developed a scalable chat application for over 3000 users by integrating a cloud-based communications SDK, implementing custom authentication, and automating group creation, resulting in enhanced user engagement on an ed-tech platform.
- **Data Processing Using Multithreading:** Designed and implemented a multithreaded Java solution for Excel file processing, resulting in more than 85% reduction in processing time for bulk record uploads and storage into relational databases.
- **Online Assessment System:** Built an online assessment system for an e-learning platform using React and Spring Framework, automating 25-30 weekly exam schedules and 100+ student registrations per batch, reducing a 3-4 day manual process to a single day, and deploying webhooks for real-time exam monitoring.

Associate Software Engineer, Accenture Solutions Private Limited, Mumbai, India

Jan 2021 - Jun 2021

- **Data Reporting and Analysis with SAP BW:** Developed and maintained SAP Business Warehouse reports by extracting, transforming, and loading data into SAP HANA using SQL-based techniques.

PROJECTS

- **Query Classifier:** Built a query classification project using Random Forest Classifier, classifying queries into Technical or Nontechnical groups. Employed custom-trained Word2Vec model to transform textual data into vectors and implemented Random Forest ML model on the vectorized data, achieving a 92% accuracy rate.
- **QuizWhiz:** Developed an AI-powered quiz generation tool during the UB AI for Good Hackathon, leveraging class transcriptions to create multiple-choice questions and enhance student learning. Implemented Hugging Face NLP models and built a full-stack solution using React (frontend) and Django (backend) for seamless quiz generation and user experience.
- **End-to-End CNN and VGG Architectures in PyTorch:** Built a Convolutional Neural Network (CNN) and VGG-13 architecture (8 convolutional layers, 3 fully connected layers) from scratch in PyTorch for image classification across 36 classes (0-9,A-Z) and 100k+ samples; achieved 91% accuracy.
- **Full-Stack E-Commerce Platform:** Created a full-stack e-commerce platform using React and Node.js offering over 150 products, integrating MongoDB for data management. Implemented global state management with Context API, and built features like product filtering, pagination, and real-time shopping cart updates.

TECHNICAL SKILLS

Programming Languages: Python, Java, C++, JavaScript

Framework: Spring MVC, Spring Boot, React, JUnit, ExpressJs, Flask

Databases Technologies: MySQL, MongoDB, Redis, SQL

Tools/Platforms: Git, Docker, Maven, AWS, Eclipse, Bitbucket, Visual Studio Code, Jupyter Lab, NodeJs, Postman

Machine Learning Algorithms: Supervised Learning, Unsupervised Learning, Neural Networks

CERTIFICATIONS & ACTIVITIES

- **Machine Learning Specialization:** Completed a Machine Learning Specialization on Coursera offered by DeepLearning.AI and Stanford Online; consisted of three courses, covering Supervised, Unsupervised Machine Learning, and Advanced Learning Algorithms.
- **Recruitment Coordinator, Undergraduate Placement Committee:** Coordinated the recruitment activities for over 20 companies, increasing placement opportunities by organizing job fairs, scheduling interviews, and maintaining employer relations.