

# NEERAJ RAJENDRA GHATE

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## Education

**University of Colorado Denver, USA**

May 2025

Master of Science in Computer Science

Coursework: Algorithms, Operating Systems, Computer Architecture, Computer Vision, Deep Learning, Computer Networks, Natural Language Processing and Generative AI

**Marathwada Mitra Mandal's College of Engineering, Pune, India**

August 2022

Bachelor of Engineering in Electronics & Telecommunications

## Technical Skills

**Languages:** Python, JavaScript, C, C++, Java, ReactJS, HTML, CSS

**Databases:** MySQL, MongoDB, DynamoDB

**Data Analysis:** Pandas, NumPy, Matplotlib, Scikit-learn

**Tools:** Git, Postman, VS Code, Jira, Jenkins, Apache Kafka, REST API, Docker, Kubernetes, Linux, Windows

**Cloud:** AWS, Apache Spark

## Work Experience

**Software Developer**

July 2022 – July 2023

**RealThings GmbH, Pune, India**

- Automated existing testing processes with Python, creating a tool that cut task time from 100+ hours to minutes, boosting efficiency by 30% and reducing manual testing and labour costs
- Delivered monthly technical presentations to a 50-person team, highlighting the latest advancements and methodologies in software development
- Led CI/CD integration with Docker and Kubernetes, speeding up release cycles by 25% and enhancing deployment efficiency
- Conducted code reviews with Git and Jenkins, reducing bugs by 40% and improving code maintainability

**Data Engineering Intern**

August 2021 – September 2021

**Clairvoyant, Pune, India**

- Processed and managed large datasets using Apache Hadoop and Spark, delivering insights that improved business decision-making efficiency by 20%
- Developed Python and Scala scripts for data cleaning, visualization, and reporting, resulting in clearer business insights for clients through real-time dashboards
- Assisted in building and optimizing data pipelines to ensure faster and more efficient data processing and retrieval
- Collaborated with cross-functional teams to deploy solutions tailored to specific client needs, contributing to a 15% increase in client satisfaction

**Web Development Intern**

June 2020 – October 2020

**Edify Accelerators, Pune, India**

- Designed and developed responsive web applications using ReactJS, HTML, and CSS, improving user engagement by 40%
- Managed version control using Git and integrated frontend with Firebase backend for real-time data updates
- Created and maintained a proof-of-concept company website using ReactJS and Firebase; the website is accessible at bloomindia.in
- Conducted usability testing, gathering user feedback to enhance functionality and improve the overall user experience

## Projects

**Human Fall Detection using Computer Vision :** Developed a 2D ConvNet system for MHI classification, achieving 98% accuracy in fall detection and real-time alerts for caregivers. Enhanced reliability through performance evaluations

**Customer Segmentation using Machine Learning :** Implemented K-means clustering to analyze customer spending patterns, identifying key segments for targeted marketing and business strategies. Used data visualization to provide actionable insights

## Certifications

**Front End Web Development with React** – The Hong Kong University of Science and Technology

**Programming Foundations with JavaScript, HTML, and CSS** – Duke University

**Front End UI Frameworks and Tools: Bootstrap 4** – The Hong Kong University of Science and Technology

**Neural Networks and Deep Learning** -DeepLearning.AI