

Ayush Dewan

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Education

New Jersey Institute of Technology

NJ, USA

Master of Science in Computer Science GPA - 3.7

Sep. 2023 – Dec 2024

Nitte Meenakshi Institute of Technology

Bangalore, Karnataka, India

Bachelor Of Engineering in Computer Science GPA - 3.1

Aug. 2018 – July 2022

Experience

Graduate Teaching Assistant

Jan. 2024 - May 2024

New Jersey Institute of Technology

NJ, USA

- Assisted in DS 636 – Data Analysis with R programming.
- Evaluated student work, including assignments, projects, quizzes, and exams, ensuring accurate grading.
- Provided constructive feedback to students, helping them improve their skills.
- Guided students through complex topics, enhancing their learning experience and course engagement.

Software Developer

Sept. 2022 - July 2023

UST Global(P) Ltd.

Bangalore, Karnataka, India

- Applied the Angular framework, Spring Boot framework, and MySQL Workbench to architect and develop end-to-end software solutions.
- Demonstrated proficiency in creating scalable, sustainable, and high-performance applications.
- Utilized MySQL Workbench for efficient database design, optimization, and management.

Projects

Detecting Pneumonia from X-ray Images | *AI, ML*

- Developed a pneumonia detection model using X-ray image analysis with machine learning, achieving 95 percent accuracy with ResNeXt.
- Utilized multiple ML models (ResNeXt, CNN, VGG16) and collaborated within a team to ensure accurate results.

Face Identification and Real Time Emotion Tracker | *AI, ML, Deep Face, CNN*

- Developed a real-time video stream analysis project to identify users and predict emotional states using a meticulously trained model, achieving accurate emotion detection.
- Co-authored and published a research paper on emotion recognition and video analysis, contributing to advancements in the field; presented at the 2022 IEEE MysuruCon.
- Collaborated within a team to deliver impactful results, enhancing real-time emotion detection through machine learning and video analysis techniques. [Paper-Link](#)

Skills

Languages: Java, JavaScript, C, C++, Python, R programming

Database: MySQL, MariaDB, MongoDB, Oracle

Frameworks: Spring MVC, Spring Boot, Django, REST APIs

Web Development: HTML, CSS, Angular, JavaScript, Bootstrap

Tools: Maven, DBeaver, Swagger, Open API, JWT, OAuth, JUnit, Mockito, CI/CD (AWS Code pipeline, Elastic beanstalk), Redis, Microservice, OOPS, Git, GitHub, Postman