

Deepesh Haresh Katudia (He/him)

Jersey City, NJ 07302 | deepeshharesh.katudia@pace.edu | (201) 238-6933 | [LinkedIn](#) | [GitHub](#)

EDUCATION

Pace University, Seidenberg School of Computer Science and Information Systems

NYC, NY

Master of Science in Computer Science | MS in CS

May 2026

Mumbai University, Shah & Anchor Kutchhi Engineering College

Mumbai, Maharashtra

Bachelor of Engineering in Computer Engineering (BENG) | **Concentration:** Software Development and AI/ML | **GPA:** 3.5

May 2024

TECHNICAL SKILLS

Programming Languages: C/C++, Python, Java, NodeJS, Machine Learning

Database Management: MySQL, Microsoft SQL, Mongo DB | **Frontend Skills:** HTML, CSS, JavaScript, ReactJs

Software / Tools: Visual Studio Code, GitHub, AWS (EC2, Lambda), Postman, Microsoft Power Bi, Artificial Intelligence, and Microsoft Excel.

Operating Systems: Windows, Linux (Basic Commands).

RELEVANT COURSEWORK

Algorithms and Computing Theory | Application Development with .NET and Web Services | Mobile Web Content and Development | React |

C/C++ | Java | Artificial Intelligence – Machine Learning | Data Structures and Algorithms

ACADEMIC PROJECTS

SightScan: Empowering the Visually Impaired People ([view](#))

August 2023 – May 2024

- Developed an Indian Currency Denomination API utilizing Convolutional Neural Networks (CNN) with a 95% accuracy rate in recognizing Indian currency notes, empowering many visually impaired users to manage finances.
- Implemented a Text-to-Speech feature using Optical Character Recognition (OCR) with an 80% accuracy in converting printed text to audio, facilitating access to information from more documents, books, and signs for visually impaired users.
- Engineered an Object Detection system using Python, Pixellib, and image segmentation to identify and classify everyday objects, enhancing mobility and safety by providing real-time feedback on surroundings.

Resume-Based Job Matching Platform ([view](#))

November 2024 – December 2024

- Designed an intuitive and responsive user interface featuring a dashboard to display matched jobs with key details like title, company, and personalized 'Fit Score'.
- Developed a drag-and-drop resume uploader with real-time progress indicators, file validation (PDF, DOC), and error handling to ensure smooth user experiences.
- Built interactive features like advanced job filters, dark mode toggle, and models to enhance accessibility and engagement across devices.

VIRTUAL WORK SIMULATIONS

Blackbird Australia Software Engineering Virtual Experience, The Forage

October 2024

- Built and verified React code in a startup environment using GitHub to perform QA testing on code functionality, then redesigned the React logo and headlines.
- Assessed AWS cloud infrastructure such as EC2 and Lambda to explore the different features offered by those services.
- Proposed a new UI feature to undergo A/B testing, participating in sprint retrospectives with a hypothetical project team to improve cross-functional teamwork and the user experience on the company's website.

PROFESSIONAL EXPERIENCE

CODTECH IT SOLUTIONS

Mumbai, Maharashtra

Web Developer Intern

June 2024 – July 2024

- Engineered web pages with HTML, CSS, and JavaScript, boosting responsiveness by 25% and enhancing UX for over 1,000 users.
- Led API integrations for client projects across the Finance Industry, reducing data retrieval time by 20% and optimizing real-time data delivery for 300+ users, collaborating with Product Managers to ensure client satisfaction.
- Streamlined front- and back-end interactions using RESTful APIs, reducing server load by 15% and boosting site performance for clients.

ACMEGRADE

Mumbai, Maharashtra

Artificial Intelligence Intern

June 2022 – August 2022

- Enhanced the performance of a movie recommendation system using Python and optimizing machine learning algorithms like Sentiment Analysis, resulting in a 20% increase in user engagement and a 15% reduction in processing time.
- Collaborated with a team of data scientists to implement personalized recommendation models using Collaborative Filtering and Content-Based Filtering, providing tailored recommendations to over 1000 users.
- Optimized data pipelines by refining data preprocessing techniques like Normalization, improving the accuracy of predictions by 12%, and ensuring seamless integration across data sources.

PUBLICATIONS

D. Katudia, M. Darji, P. Darji, J. Mehta and D. Pritam, "A Techno-Cognitive Exploration: The Machination of SIGHTSCAN in Facilitating Visual Impairment Autonomy," 2024 3rd International Conference on Applied Artificial Intelligence and Computing (ICAIC), Salem, India, 2024, pp. 1246-1250. | ([View Paper](#))

Jagani, D. Katudia, M. Darji and V. Hirlekar, "CogniPoseAI: A Futuristic AI-Enhanced Personal Trainer," 2023 International Conference on Self Sustainable Artificial Intelligence Systems (ICSSAS), Erode, India, 2023, pp. 188-193. | ([View Paper](#))