

# YASH DEEPAK DESHPANDE

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## EDUCATION

### Stevens Institute of Technology Hoboken, New Jersey

Aug 2023 - Present

Master of Science (MS) in Computer Science (Expected Graduation May 2025)

Courses – Web Programming 1, Intro to Cloud Computing, Data Mining,

### University of Mumbai, Maharashtra, India

July 2017 - June 2021

Bachelor of Engineering (BE) in Information Technology

Coursework – Data Structures, Databases, Networking, Internet Programming, Big Data, Artificial Intelligence, Internet of Things

## EXPERIENCE

### Tata Consultancy Services (TCS), Mumbai, India

July 2021 - July 2023

Assistant System Engineer

- Automated supply chain processes for an Australian telecom client, reducing repetitive tasks by 40%.
- Developed end-to-end automation flows using Pega Robotics and SQL, enhancing operational efficiency.
- Executed detailed API testing with Postman and Soap UI, ensuring 99% accuracy for a Middle Eastern telecom client.
- Designed and executed test cases for Telecom Offers Testing in Pega CDH, improving test coverage.
- Led functional QA activities, achieving a 30% reduction in defect rates through meticulous test case design and regression testing

### Mindscrip Pvt Ltd Thane, Mumbai, India

June 2019 - July 2019

Web Developer

- Designed and implemented an interactive event section for a sports website using HTML, CSS, Javascript, and Bootstrap.
- Utilized REST APIs to retrieve and present dynamic sports event data including schedules, scores, and player statistics within the event section of the sports website, enhancing user engagement and providing up-to-date information.

## PROJECTS AND PAPERS

### PawPal – A Petcare Website

April 2024

- Worked on a pet care website project, contributing to implementing user registration and login functionalities using Node.js, Express.js, and MongoDB for efficient database operations.
- Developed the appointment scheduling module, enabling users to effortlessly book services for their pets, enhancing the overall user experience on the platform.
- Applied Handlebars to craft a visually appealing and dynamic frontend interface, enhancing user interaction and experience across the PawPal platform.
- Assisted in implementing the community forum section that contained features for discussions and knowledge sharing within the pet care community.

### Customer Conversion Prediction for Insurance Sales

Dec 2023

- Developed and implemented a classification model utilizing Random Forest and Logistic Regression algorithms on a dataset comprising over 45,000 entries to predict customer conversion, achieving a remarkable accuracy of 93%.
- Addressed the challenge of dataset imbalance using the SMOTE library in Python, ensuring robust handling of minority class instances to enhance the model's predictive performance and reliability.

### Student Information Management System (SIMS)

Jan 2022

- Developed a comprehensive platform facilitating daily operations for an educational institute covering Attendance tracking, Grade management, Events coordination, and Course administration. Accessible to Students, Faculties, and Parents through both web and mobile applications.
- Utilized PHP for backend development and proficiently handled databases to manage extensive student and faculty data.
- Implemented JavaScript for validation and additional functionalities ensuring a seamless user experience, also engineered an Admin Module responsible for efficiently adding and managing students and faculty users within the system.
- Successfully deployed the project, currently live and actively utilized by KJSIT Mumbai. (<https://www.kjsieit.in/sims/>).

### Chemotherapy Suitability Prediction (Research Paper)

July 2021

- Published a Technical Research Paper titled “Machine Learning Approach for Chemotherapy Suitability Prediction using Genomic Data” in the Social Science Research Network (SSRN) Journal. (<https://shorturl.at/QU6Ra>)

## SKILLS

**Programming Languages:** Python, Javascript, C, C++, R, HTML, CSS, PHP, SQL **Databases:** MongoDB, MySQL, PostgreSQL

**Frameworks:** NodeJS, ExpressJS, Django, Flask, Handlebars **Technologies & Tools:** Power BI, AWS, Postman, Git, Github, Bloomberg

**Other:** Data Analysis, Data Visualization, Supervised and Unsupervised Machine Learning, Testcase Design

## COURSES AND CERTIFICATIONS

- Python for Data Science, AI, and Development (Coursera) | SQL For Data Science (Coursera)
- Generative AI with Large Language Models (Coursera) | Applied Machine Learning in Python (Coursera)
- Web Development (Intern Theory) | ChatGPT Prompt Engineering for Developers (DeepLearning.AI)