

ISHAN MAHESH DESAI

Urbana, IL 61801 | ishanmd2@illinois.edu | +1 (267) 777-8076 | [linkedin.com/in/ishandesai](https://www.linkedin.com/in/ishandesai)

EDUCATION

University Of Illinois, Urbana-Champaign

August 2024 – Expected 2026

Masters | Information Management (MSIM)

(GPA – 4.0/4.0)

Relevant Coursework: Data Visualization, Data, Statistics and Information, Data Warehousing and Business Intelligence.

Dwarkadas J. Sanghvi College of Engineering, Mumbai, India

August 2020 – June 2024

Bachelors | Information Technology (*Minors - Data Science*)

(CGPA – 9.08/10)

Relevant Coursework: Big Data Analytics, Database Management System, Machine Learning, Software Engineering, Cloud Computing, Management Information Systems, Analysis of Algorithms, and Project Management.

TECHNICAL SKILLS

- **Programming languages:** Python, C, C++, Java, React, HTML, CSS, Tailwind CSS, R Programming,
- **Data tools:** MySQL, Tableau, Power BI, Excel, PostgreSQL, MongoDB, InfluxDB, neo4j, MATLAB
- **Application Software:** AWS, Microsoft Azure, MS Office, SAP Business Objects, Atlassian, Jira, PySpark, GitHub.

PROFESSIONAL EXPERIENCE

Tata Advanced Systems Limited, Mumbai, India | Project Engineer

August 2023 – May 2024

- Led a team in developing a facial recognition system that ensured factory worker compliance with safety gear, detected fire and smoke, and prevented trespassing in sensitive areas.
- Orchestrated Yolo v8, Computer Vision, RNN, feature detection and extraction algorithms giving an impressive **97% precision**.
- Developed this software adaptable to diverse range of cameras, enabling accuracy and **reducing false alarms by 40%**.
- Designed real-time dashboards that provided instant alerts on safety breaches, leading to a **50% decrease in safety violations** and **improving response time by 35%**.

Narola Infotech, Surat, India | Data Analyst Intern

November 2022 – July 2023

- Designed interactive dashboards using Tableau, Power Bi and Advance Microsoft Excel making it convenient for stakeholders to analyze complex sales information, **improving transparency by 40%**.
- Conducted data cleaning and pre-processing using ETL techniques to the client's business operations to identify anomalies and present the information in a format conducive to seamless analysis, **improving quality by 30%**
- Contributed to the implementation of 'Fraud Detection in Financial Transactions' using Python and its libraries, including Scikit-learn, TensorFlow, Pandas, and Matplotlib, saving **\$80,000 in frauds**.

Servify, Mumbai, India | Data Engineer Intern

July 2022 – August 2022

- Incorporated Python, Flask, SQL and PyTorch to build a chatbot integrated with Slack, streamlining the process for employees to retrieve sales data from back-end database using 'keywords', resulting in **18-hour reduction of bi-weekly workload**.
- Organized SCRUM meetings for cross-functional coordination and managed daily tickets in Atlassian and Jira to assign tasks in Agile environment, prioritized development, and track project timelines for improved efficiency.

ACADEMIC PROJECTS AND PAPERS

College Placement Portal

- Developed a placement portal for our college using React, Java, and Firebase, streamlining the placement process and reducing chaos for students and faculty, saving **8 hours per week** during peak placement seasons.
- Displayed an array of interactive charts and graphs, facilitating the analysis of placement records and consequently saving time.
- Enrolled students get notified via automated email notifications when a specific company is scheduled to visit the college for placement activities, ensuring they do not overlook the chance to apply to their dream company.
- Filed a copyright for this website that is officially recognized by the Copy Right Office Of India and is presently undergoing scrutiny.
Diary No.- (5065/2023-CO/SW)

Chatbot Enhanced House Price Prediction Using Ensemble Technique

- Created a model to accurately predict real-estate prices using ensemble techniques combining three machine learning algorithms namely, Support Vector Machine (SVM), Random Forest and AdaBoost Regressor.
- Used 17 different parameters to make the prediction of property prices, giving an **accuracy of 97.5 %** across various data sets.

Annual Report Analysis with Advanced Language Models: A Stock Investment Strategy Enhancement

- Employing Open AI's ChatGPT-3.5-Turbo and Learning Language Models, I constructed a model that can provide intricate responses to inquiries posed by a financial analyst by utilizing data extracted from the organization's annual reports.
- Co-authored a technical paper on the same and published in the "International Research Journal of Engineering and Technology" (ISSN No. - 2395-0056).

EXTRACURRICULARS

- Engaged in volunteer work at SFC Foundation, where I instructed underprivileged children in computer literacy and fundamental skills, including Microsoft Excel, Word, Power Point and basic programming languages like C and Python.
- Played for my college cricket team and also represented my department in basketball, track and field and cricket at Trinity festival.
- Fundamentals of Artificial Intelligence, IBM
- Innovation and Information Technology Management Certification, Indian Institute of Management-Bangalore (IIMB).