

# MANISHA SHAH (She/Her/Hers)

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## PROFILE

Graduate Computer Science student with 1.5+ years of software development experience and 3+ academic projects in AI including sentiment analysis, and time series forecasting. Conceptualized React, Flask, and Python-based data analysis. Strong communication, analytical, and troubleshooting skills, with ability to handle projects both in independent roles and within team environments.

## EDUCATION

**Pace University, Seidenberg School of Computer Science and Information Systems**

**New York, NY**

Master of Science (MS) in Computer Science

Dec 2025

**Pokhara University, Nepal College of Information Technology**

**Lalitpur, Nepal**

Bachelor of Engineering (BE) in Information Technology

Jun 2021

## RELEVANT COURSEWORK

Programming with C/C++ | Data Structure and Algorithms | Natural Language Processing | Web Development | Data Science | Advanced Java with API | Network Programming | Database Management System | Advanced Artificial Intelligence

## TECHNICAL SKILLS

**Programming:** Python, Java, Javascript, Typescript, C, C++, PHP, HTML, CSS

**AI Concepts:** Large Language Model (LLM), Retrieval-Augmented Generation (RAG), Generative AI

**Libraries/Frameworks:** Flask, Django, React, Next.js, Tailwind CSS

**Database:** SQL, MySQL, PostgreSQL, MongoDB, DynamoDB | **OS:** Windows, MacOS, IOS, Android, Linux, UNIX

**Software/Tools:** Visual Studio Code, Eclipse IDE, STS4, Jupyter Notebook, Google Colab, Git, MS 365 (Word, Excel, Outlook), Google Suite, Amazon AWS, Amazon EC2

**Certifications:** Frontend Development with Javascript and ReactJS (Genese Cloud Academy, 2021)

## ACADEMIC PROJECTS / PERSONAL PROJECTS

### Food Pantry Analysis System

Sep 2024 – Dec 2024

- Analyzed Food Pantry data using Python for data visualization using Exploratory Data Analysis and Time Series Analysis.
- Forecasted high demand periods using XGBoost model for inventory optimization.

### Twitter Sentiment Analysis

Feb 2024 – Apr 2024

- Developed a sentiment analysis model using Python and NLP libraries to classify sentiment in tweets for social insights.
- Implemented data cleaning, feature extraction, and supervised learning models to improve sentiment prediction accuracy.

### Web Platform for Machine Learning Models

Mar 2021 – May 2021

- Developed a web application using Python, Flask, HTML, and CSS to showcase full-stack development skills.
- Integrated 5+ machine learning algorithms into one platform, ensuring scalability and reliability for real-time predictions.

## PROFESSIONAL EXPERIENCE

### Pratyaza Infosys

Kathmandu, Nepal

Junior React Developer

Jan 2022 – Jun 2023

- Developed reusable and responsive React components to enhance user experience, improving page load by 20%.
- Optimized front-end performance using code-splitting techniques resulting in a 15% increase in application speed.
- Implemented Git and GitHub to manage version control for more than 6 collaborative projects, and ensure code integrity.
- Guided in debugging and troubleshooting interface software and application codes by reducing page errors by 10%.

Intern React Developer

Oct 2021 – Jan 2022

- Gained proficiency in React, learning fundamental syntax and implementing core application logic to enhance functionality.
- Facilitated UI improvements by implementing user-friendly design elements, increasing user engagement by 10%.
- Expanded technical knowledge by engaging in 100+ hours of hands-on practice and learning.

## LEADERSHIP EXPERIENCE

### Pratyaza Infosys, Project Lead

Nov 2022 - Mar 2023

- Led a team of 3 members in developing a project, managing tasks, delegating roles, and meeting project milestones on time.