

# PRIYAM THAKKAR

(832) 767-9503 | priyam.thakkar@rice.edu | Boston, MA, USA | LinkedIn | GitHub | Portfolio

## EDUCATION

### RICE UNIVERSITY

HOUSTON, TX, USA

Master of Computer Science (MCS)

Aug 2023 - Dec 2024

- Served as a Teaching Assistant for “**Statistics for Data Science**” course in Fall 2024 semester
- Relevant Coursework:** Artificial Intelligence, Machine Learning, Deep Learning, Computer Vision, Natural Language Processing, Software Engineering, Project Management and Leadership

### MANIPAL UNIVERSITY

JAIPUR, RJ, INDIA

Bachelor of Technology (B.Tech) , Computer Engineering

Jul 2019 - Jun 2023

- Awards:** Dean’s List, Student Excellence Award for research contributions, scholarship (20%) awarded to the **top performer**
- Completed a **Senior Certificate Program** in **Computer Science** at **University of Florida**
- Relevant Coursework:** Object-Oriented Programming, Relational Database Management System (SQL), Operating Systems & Shell Programming, Big Data Analytics, Data Mining, Data Structures and Algorithms, Engineering Mathematics

## TECHNICAL SKILLS

**Programming Languages:** Python, R, Java, C/C++

**Libraries & Frameworks:** NumPy, Pandas, Matplotlib, PyTorch, TensorFlow, scikit-learn, Keras, Hugging Face, OpenCV

**Machine Learning, Data Engineering & MLOps:** Airflow, Apache Spark, Databricks, DVC, ETL Pipelines, Fine-tuning LLMs, MLflow, RAG Pipelines, Model Deployment, Power BI, Tableau

**Cloud Platforms & DevOps:** Microsoft Azure, Docker, Kubernetes, CI/CD Pipelines, AWS EC2, AWS S3, GCP Storage

**Databases & Storage:** MySQL, PostgreSQL, MongoDB, Vector Databases (Pinecone)

**Web Development & APIs:** HTML, CSS, JavaScript, Bootstrap, React.js, Node.js, Flask, REST APIs

## PROFESSIONAL EXPERIENCE

### Affekta

HOUSTON, TX, USA

Machine Learning Intern (LangChain, Pinecone, React, MS Azure, CI/CD, PostgreSQL, OpenAI API)

May 2024 - Aug 2024

- Designed **RESTful APIs** to integrate gamified features, including skill trees and rewards, **engaging 5,000+ users**
- Built a GPT-driven quiz generator pipeline using **LangChain** and **OpenAI API**, **boosting user interaction and engagement**
- Extended the GPT quiz system with **RAG pipeline** and **Pinecone** to dynamically retrieve domain-specific context
- Deployed a web application with Azure-based **CI/CD pipelines**, enhancing operational reliability
- Enhanced **React** server-side rendering, achieving a **30%** reduction in page load times

### Rice University

HOUSTON, TX, USA

Research Assistant (Python, TensorFlow, Pandas, NumPy, Scikit-learn, BeautifulSoup, Time-Series Analysis)

Sep 2023 - Dec 2023

- Created a causal forest analysis framework for clinical time-series, increasing predictive **accuracy by 20%**
- Improved model training **efficiency by 25%** through TensorBoard and Weights & Biases integration
- Conducted feature extraction and pre-processing on **10,000+ clinical data points**, ensuring high-quality inputs

### National University of Singapore (NUS)

SINGAPORE, SG

Data Science Intern (Python, TensorFlow, Flask, HTML, CSS, JavaScript, Microsoft Azure)

Jun 2022 - Jul 2022

- Spearheaded a deep learning project for Gastrointestinal Polyps Detection using **CNNs**, achieving **10% higher accuracy**
- Delivered a **Flask**-based interactive web tool, integrating **TensorFlow** models via **REST APIs** for real-time insights
- Implemented scalable deployments on **Azure**, optimizing resource utilization and performance

## PROJECTS

### AI-Powered E-commerce Platform

HOUSTON, TX, USA

House of Happiness Website (HTML, CSS, JavaScript, Flask, MySQL, Google API, Hugging Face, Render)

Sep 2024 - Dec 2024

- Integrated **Stable Diffusion API** for real-time, AI-driven cake designs, reducing customer explanation **time by 40%**
- Designed **REST APIs** for secure payment processing and product catalogue management using **Razorpay**
- Automated analytics for inventory and sales, **improving** operational workflows by **20%**

### Fashion Recommendation & Virtual Try-On System

HOUSTON, TX, USA

Stylistic AI (Python, TensorFlow, Matplotlib, EfficientNet-B7, CLIP, K-NN, Flask, RapidAPI)

Jan 2024 - May 2024

- Built a multimodal recommendation engine, achieving **94% recall** at top-5 recommendations using CLIP embeddings
- Developed a virtual try-on feature for personalized suggestions, **boosting engagement by 30%**
- Implemented **K-Nearest Neighbours** for fashion insights, ensuring tailored user experiences

## PUBLICATIONS

- CrowdDCNN: Deep convolutional neural network for real-time crowd counting on IoT edge.** Published in *Engineering Applications of Artificial Intelligence*
- KUB-UNet: Segmentation of Organs of Urinary System from a KUB X-ray Image.** Published in *Computer Methods and Programs in Biomedicine*