

# Krish Patel

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## EXPERIENCE

### DRAPER SCHOLAR PROGRAM | AI RESEARCHER IN SYSTEMS ENGINEERING

June 2024 – Present | Cambridge, MA

- Leading a 2-year AI-driven thesis on Technical Debt in Systems Engineering lifecycles.
- Developing a Retrieval-Augmented Generation (RAG) system using LLMs to analyze engineering documentation.
- Implementing scalable AI models on AWS SageMaker for intelligent document processing.

### ARCFIELD | SOFTWARE ENGINEERING INTERN

July 2023 – August 2023 | Chantilly, VA

- Built a real-time network monitoring dashboard using Icinga in an Azure GCC-H environment.
- Integrated Grafana and Prometheus for anomaly detection and system health visualization.
- Developed Dockerized solutions to enhance network security and deployment efficiency.

### ABBVIE | MACHINE LEARNING & CLOUD ENGINEER

June 2022 – March 2023 | Chicago, IL

- Developed AI-driven analytics for monitoring enterprise EMR clusters in AWS.
- Designed real-time anomaly detection using Prometheus and Grafana.
- Optimized cloud infrastructure with Terraform and Kubernetes for scalable deployment.

## PROJECTS

### AI-POWERED REAL ESTATE PRICE PREDICTION | MACHINE

LEARNING & DATA SCIENCE

GitHub

- Built a regression model predicting real estate prices using XGBoost and interpretable AI techniques.
- Developed an interactive dashboard for real-time data visualization and trend analysis.

### GRAPH-BASED LINK PREDICTION FOR DRUG-DRUG INTERACTIONS | AI IN HEALTHCARE

GitHub

- Applied graph neural networks (GNNs) to predict missing drug-drug interactions.
- Leveraged PyTorch Geometric and deep learning techniques for biomedical link prediction.

### CUSTOMER TRANSACTION PREDICTION WITH ML | PREDICTIVE MODELING

GitHub

- Developed a binary classification model predicting customer transactions using Santander's behavioral data.
- Employed feature engineering, hyperparameter tuning, and model evaluation techniques.

## EDUCATION

### WORCESTER POLYTECHNIC INSTITUTE

M.S. IN ELECTRICAL & COMPUTER ENGINEERING

2024 – 2025

B.S. IN ELECTRICAL & COMPUTER ENGINEERING

2021 – 2024

## SKILLS

### MACHINE LEARNING

Deep Learning • NLP • Computer Vision  
Graph Neural Networks • Explainable AI

### SOFTWARE ENGINEERING

Python • Java • C • SQL  
System Design • REST APIs • Distributed Systems

### CLOUD TECHNOLOGIES

AWS • Azure • Kubernetes • Docker  
Terraform • CI/CD Pipelines

## CERTIFICATIONS

AWS Certified Machine Learning Specialty (AWS MLS-C01) (2025 - 2028)  
AWS Certified Solutions Architect Professional (AWS SAP-C02) (2024 - 2027)  
Microsoft Certified: Azure Solutions Architect Expert (AZ-305) (2022 - 2024)  
Certified Kubernetes Application Developer (CKAD) (2021 - 2024)

## COURSEWORK

### GRADUATE

Responsible AI  
Computer Architecture  
Machine Learning in Cybersecurity  
Knowledge Discovery and Data mining

### UNDERGRADUATE

Databases I  
Analysis of Algorithms  
Machine Learning  
Machine Organization and Assembly  
Language  
Operating Systems

## LINKS

GitHub:// [krishpatel1077](#)

LinkedIn:// [krishpatel9999](#)