





# FARAZ HASHMI

## MACHINE LEARNING ENGINEER

### CONTACT

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### SKILLS

Machine Learning

Natural Language Processing

Computer Vision

Reinforcement Learning

Python, C#, Angular

MS SQL Server, IBM DB2, MySQL

Data Visualization - Matplotlib, Seaborn

Containerization using Docker

AWS CI CD using GitHub actions

ML Flow - Tracking

Apache PySpark, MLlib

### EDUCATION

**Master of Science in**  
Machine Learning and AI  
**Liverpool John Moore's University**  
2020-2022  
Ranked #1 for Top Performers awards and secured GPA 4/4.

**Bachelor of Engineering in**  
Electronics and Communications  
**Rajeev Gandhi Technical University**  
2016-2018  
Received honors degree by securing 79%

### PROFILE

Senior Machine Learning Engineer having 4 years of experience in developing end to end AI applications. Before AI, worked as a senior .NET developer for 13 years specializing in full stack application development.

Work experience across diverse geographies and cultures including India, USA and Canada. Highly praised by every client throughout these years with key strengths being technical adaptability and work ethics.

### WORK EXPERIENCE

#### Senior Analyst - AI

DXC Technology - Canada 2022-2024

- Designed and developed an **end-to-end machine learning model** to identify if an auto insurance claim being fraud or not. **Separate pipeline** created for each step of ML lifecycle. Libraries used - *NumPy, Pandas, PyYAML, Python\_Box, SciKitLearn, imblearn, Flask*. The model is live and is referred to by claim adjusters.
- Designed and developed a **convolution neural network** model to look at accidental car images to identify and estimate the damage. Libraries used - *NumPy, PyYAML, Python\_Box, Pillow, TensorFlow*. Model needs updates with requirements to access damage on a video.
- Designed and developed a **Large Language Model (LLM)** to **summarize** the declarations page of an insurance document. Also, developed a similar model to summarize state insurance forms. Libraries used - *PyTorch, ensure, HuggingFace transformers, BERT base NER, rouge\_score*. **Named Entity Recognition** model identifies personals, coverages and premiums. Summarizer summarizes long forms and declaration document.
- Tracked all model experiments using **MLFlow**.
- Deployed models and created **AWS CI CD pipelines** using **GitHub actions**.
- Developed a proprietary small business insurance product that brought \$25M in earned premium till date.

#### Professional Application Engineer

DXC Technology - USA 2014-2022

- Developed various **POCs for use of AI in insurance domain** (like chatbot, customer churn predictor).
- Worked with several clients for development of various enterprise applications in insurance domain.
- Developed excellent relationship with customer based on exceptional performance which helped bring more contracts to the company.

# FARAZ HASHMI

## DATA SCIENTIST

### CERTIFICATIONS

- Associate in Insurance  
The Institutes - USA
- Microsoft Certified Application  
Developer  
Microsoft - India

### ACHIEVEMENTS

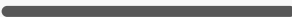
Won Employee of the Quarter award


Won Property and Casualty gems award

Several 'Key to Success' awards

Captain of cricket team in DXC  
tournament

### LANGUAGES

English 

Hindi 

### WORK EXPERIENCE

#### Some individual projects to mention

Self Development

2020-2024

- Designed and developed a **Machine Learning Framework** that trains several ML models on a subset of data and picks up the best model based on given configurable metric.
- The identified best model is then trained on a full dataset. It utilizes the regularization and cross-validation techniques to result in a generalized model.
- All the hyperparameters are also configurable and so fine tuning can be performed once a model is finalized.
- Modular programming was done to support easier maintenance and it also makes use of MLFlow to track experiments.
- This framework supports **both - classification and regression** - and so has proven to be **great to perform quick POCs**.

#### Senior Software Developer

DXC Technology - India

2009-2014

- Design .NET core MVC applications.
- Gather requirements from client, design, code, test, and perform retrospective in an agile environment, delivering results in two-week sprints.
- Design and architect a framework to house next generation web applications. This framework was so versatile, that team members can just plug and play web apps to it.
- Analyze Systems for complex performance issues and work on improving performance.
- Subject Matter Expert (SME) on DXC's proprietary insurance product 'Exceed'.
- Share technical expertise with team members by mentoring them in weekly sessions.

#### Software Engineer

Tech Mahindra - India

2007-2009

- Understand and analyze the technical specifications and suggest code optimization ideas.
- Develop software code as per specifications.
- Ensure error free product delivery to client.