

# Bhavya Patel

306-519-9097 | bhavya.patel@torontomu.ca | linkedin.com/in/bhavya-patel-32541b222 | https://github.com/bcp579

## EDUCATION

### Toronto Metropolitan University

*Bachelor of Science (BSc) in Computer Science* - CGPA: 3.7 / 4

Toronto, ON

Expected graduation: April 2027

**Relevant Coursework:** Object Oriented Programming, Data Structures & Algorithms, Machine Learning, Database, Linux, Bash shell programs

## TECHNICAL SKILLS

**Programming & Databases:** Python, SQL, Java, C/C++ , HTML, CSS, JavaScript, MS SQL Server, Firebase, Microsoft Azure

**Data Science & Analytics:** scikit-learn, TensorFlow, Keras, Pandas, NumPy, Matplotlib, Power BI, Figma

**Tools & Systems:** Git, GitHub, Jira, RESTful APIs, iOS, Android, Microsoft Office (Excel, Word, PowerPoint), Google Workspace

## WORK EXPERIENCE

### Mobile App and Academic Initiatives Developer

*Toronto Metropolitan University*

May 2025 - Present

Toronto, ON

- Developed and deployed a cross platform mobile application for iOS and Android in React Native, implementing user focus design to enhance student engagement for 1,000+ users.
- Architected robust backend and scalable solutions using Firebase, ensuring high availability and reliability for cloud-based services.
- Collaborated with project managers in an agile environment to translate stakeholder requirements into technical specifications and deliverables.
- Performed rigorous quality assurance (QA) testing, system monitoring, and debugging to maintain a high quality, bug free user experience.

### Library Digitization Projects Assistant

*Toronto Metropolitan University*

Sep 2024 - April 2025

Toronto, ON

- Streamlined the digital archival process by utilizing specialized scanning software and metadata entry tools, increasing processing speed for academic records by 20%.
- Executed a high volume data management project, ensuring 100% data quality, accuracy, and control in compliance with AODA accessibility standards.

### IT Technician

*Asurion*

October 2022 - May 2024

Moncton, NB

- Applied analytical and problem solving skills to troubleshoot and resolve over 500 client technical issues related to hardware, software, Windows, and network configurations in an agile team.
- Implemented solutions that reduced average ticket resolution time by 15%, enhancing operational efficiency.
- Orchestrated the deployment and configuration of enterprise software and security patches across client devices, utilizing strong communication and verbal skills to ensure 100% compliance with corporate security protocols.

## PROJECTS

### Predictive Modeling Case Study (DBP)

*Python, scikit-learn, Pandas, NumPy, TensorFlow, Keras, Matplotlib*

- Cleaned and preprocessed large scale datasets using Python (Pandas, NumPy) to ensure data quality and readiness for data analytics, and machine learning workflows.
- Developed, trained, and optimized data-driven machine learning models (Linear Regression, CNN) with scikit-learn and TensorFlow, applying techniques like hyperparameter tuning and PCA to enhance performance and reduce complexity by 30%.
- Created technical documentation and visualizations (Matplotlib) to present model results, evaluation metrics, and insights clearly to stakeholders.

### AI-Powered Chatbot App and API

*React Native, JavaScript, Node.js, Microsoft Azure, OpenAI API, SQL*

- Supported the deployment and integration of an AI model (OpenAI API) into a full-stack solution.
- Contributed to model integration by developing a Node.js backend API to process complex user queries (similar to LLM workflows), improving response accuracy by 25%.
- Architected a scalable Azure backend to manage user data and API requests, utilizing SQL for data persistence.