Dhruv Nareshkumar Panchal

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SUMMARY

Recent graduate with a Master's in Applied Computer Science from Concordia University. Experienced in developing and implementing machine learning models, web applications, and software solutions. Proficient in Java, Python, and C++.

SKILLS

Languages: Java, Python, C/C++, SQL
Web Development: HTML, CSS
Cloud Computing: AWS (EC2, S3)
DevOps Tools: Docker, Git
Frameworks: Spring
Libraries: NumPy, pandas, Matplotlib, Seaborn, scikit-learn, TensorFlow, PyTorch
Languages: Fluent in English, Hindi, Gujarati; Level-2 proficiency in French

EXPERIENCE

AI Software Developer — May 2024 – Present
Vosyn — *Toronto, ON (Remote)*

Graduate Teaching Assistant — July 2023 – April 2024
Concordia University — *Montreal, QC*
- Supported curriculum development, conducted exams, wrote exam papers, graded assignments, and held office hours to assist students with coursework for various undergraduate and graduate computer science courses.

Deep Learning Engineer — January 2022 – April 2022
Notionmind Pvt. Ltd. — *Ahmedabad, India*
- Developed an Android application for image similarity detection using TensorFlow, Keras, and various sklearn models, enhancing machine learning workflows with pre-trained and custom models.

Machine Learning Engineer — May 2021 – August 2021
IITD-AIA Foundation for Smart Manufacturing, IIT Delhi — *Delhi, India*
- Engineered machine learning algorithms for fault prognosis in industrial machinery using lathe machine data and developed a real-time monitoring web application to improve operational efficiency.

Software Development Engineer — November 2020 – April 2021
Vinculum Solutions Pvt. Ltd. — *Ahmedabad, India*
- Enhanced system performance and managed server-side maintenance using Python, maintained codebase, performed code reviews, and ensured consistent code quality across the team.

PROJECTS

Facial Expression Detection Project | *Python, PyTorch, OpenCV*
- Led the integration and preprocessing of a 34,155-image dataset using MTCNN and ResNet-50 for face detection and feature extraction; achieved 77.86% accuracy in emotion detection. Developed Python scripts for dataset management and utilized PyTorch for model training and evaluation.

Chatly: Multi-Platform Chatting and File Sharing Application | *Java, Java Swing, Android SDK*
- Engineered a Java-based multi-platform group chat and file-sharing application using Java Swing, networking, multithreading, and Android SDK.

EDUCATION

Concordia University
Master's in Applied Computer Science — *Montreal, QC*

Gujarat Technological University
Bachelor's in Computer Engineering — *Ahmedabad, India*