SHUBH PATEL

Ontario, CA

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SKILLS

- **Languages** - Python, R Programming, Java, JavaScript, Node.js, React.js, Go Language, C++
- **Development Tools** - Git, GitHub, Jupyter, VS Code, Docker, Linux/Unix, PyCharm, Postman
- **Databases** - MySQL, PostgreSQL, SQLite, MongoDB, Redis
- **Data Science/ML** - TensorFlow, PyTorch, Pandas, NumPy, Scikit-learn, XGBoost, CatBoost, Keras, Matplotlib, Seaborn, Plotly, HuggingFace Transformers, NLTK, spaCy, OpenCV
- **MLOps** - Git, Docker, AWS(EC2, S3, ECR, RDS, SageMaker), GCP, Azure, CI/CD(GitHub Actions), MLflow, Apache Airflow, Kubernetes, FastAPI, Flask, Weights & Biases, DVC, Linux, Bash
- **Big Data** - Apache Spark, Hadoop, Databricks

RELEVANT COURSEWORK

- **Computer Science** - Data Structures, Algorithms Analysis, Software Methodology, Systems Programming
- **Data Science/ML** - Database Management, Artificial Intelligence, Internet Technology, Computer Architecture

EXPERIENCE

Student Assistant - ML Research May 2024 - Aug 2024
Algoma University *Brampton, ON*

- Assisted in research on image classification techniques using pre-trained models like ResNet and EfficientNet for applications in document processing.
- Implemented data preprocessing pipelines and augmentation strategies that improved model accuracy by 15% on limited datasets.
- Built and evaluated machine learning models using scikit-learn and PyTorch, documenting experimental results and creating visualizations for performance analysis.

PROJECTS

Wine Quality Prediction System — *Python, Scikit-learn, Flask, Pandas, NumPy* Febr 2023

- Developed an end-to-end ML pipeline to predict wine quality based on physicochemical properties using a Kaggle dataset
- Implemented various regression models including Random Forest, XGBoost, and SVM with hyperparameter tuning
- Achieved 87% prediction accuracy through feature engineering and model optimization
- Created a Flask web application with a user-friendly interface for real-time wine quality predictions

Student Performance Prediction System — *Python, Pandas, Matplotlib, Scikit-learn, EDA* February 2025

- Built a predictive model to forecast student exam performance based on socio-economic factors and study habits
- Performed comprehensive EDA with visualization using Matplotlib and Seaborn to identify key correlations
- Implemented data preprocessing pipeline including handling missing values, feature encoding, and scaling
- Compared multiple ML algorithms (Linear Regression, Decision Trees, Random Forest) to achieve optimal results
- Packaged the solution with proper documentation for reproducibility and deployment

EDUCATION

Algoma University May 2023 - January 2026
Bachelor of Computer Science (Co-op) – Major GPA: 4.0 (CGPA: 3.8) *Brampton, ON*