GUNAM VARDHAN

Toronto, Ontario, Canada || gunamvn@gmail.com || (514) 893-9526

Senior Data Engineer | 5+ Years of Experience | AI/ML Solutions | Azure Expertise | Python Specialist | MLOps Practitioner | Bilingual (English & French) |

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PROFESSIONAL SUMMARY

Experienced AI/ML Engineer with over 5 years of expertise in designing and deploying advanced machine learning solutions on Microsoft Azure. Proficient in predictive analytics, MLOps pipelines, and scalable AI frameworks. Proven ability to streamline operations and deliver domain-specific AI solutions that enhance decision-making and operational efficiency. Strong technical acumen, coupled with effective stakeholder collaboration and bilingual communication skills (English and French).

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CORE COMPETENCIES

Programming Languages: Python (Advanced), SQL, R
Cloud Platforms: Microsoft Azure (Azure ML, Cognitive Services, Synapse Analytics, Databricks, ADF, Blob Storage)
AI/ML Frameworks & Tools: Hugging Face, OpenAI, TensorFlow, PyTorch, Scikit-learn, MLOps (Docker, Kubernetes, Azure DevOps)
Data Analytics & Visualization: Power BI, Advanced Excel
Databases & ETL: MySQL, Azure SQL Database, ETL Pipelines
AI Skills: NLP (Transformer Models, GPT), Predictive Analytics, Generative AI, Model Optimization
Soft Skills: Leadership, Team Collaboration, Effective Communication, Problem-Solving

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WORK EXPERIENCE

Senior Data Engineer

LTIMindtree Canada Limited | August 2023 – Present

- Led the development and deployment of advanced machine learning models, including transformer-based architectures like Hugging Face and OpenAI, improving production efficiency and scalability.
- Designed robust and automated MLOps pipelines for data preprocessing, model training, validation, and deployment, reducing overall time-to-production by 40%.
- Engineered end-to-end Azure-based cloud solutions, integrating VNets, key vaults, and container registries to enhance security and optimize resource utilization.
- Optimized data pipelines for enterprise-scale AI/ML applications, increasing data processing efficiency by 25%.
- Delivered tailored AI/ML solutions such as fraud detection systems and personalized recommendation engines, achieving a 30% boost in user engagement.
- Mentored junior engineers and conducted workshops for clients to leverage advanced Azure AI/ML tools effectively.

Application Development Analyst

Accenture, Bengaluru, Karnataka, India | May 2019 - April 2021

- Developed LSTM-based demand forecasting models to optimize supply chain operations, reducing inventory holding costs by 14%.
- Automated complex financial data workflows using Azure Data Factory, Tableau dashboards, and Python, improving decision-making speed and accuracy.
- Migrated legacy systems to Azure Synapse Analytics, ensuring improved scalability and reliability for large-scale data processing.
- Created predictive analytics models using Gradient Boosting Algorithms, improving forecast accuracy by 25%.
- Collaborated with cross-functional teams to address data transformation challenges, reducing ETL processing times by 35%.

Application Development Associate

Accenture, Bengaluru, Karnataka, India | May 2017 - April 2019

- Automated workflows for financial accounting and material management using Python and SQL, reducing manual efforts by 50%.
- Designed and implemented a fraud detection pipeline leveraging Random Forest classifiers, improving fraud detection accuracy by 31%.
- Preprocessed and cleaned large-scale transactional data, addressing imbalanced datasets and reducing false positives by 37%.

EDUCATION

- **Master of Engineering in Electrical and Computer Engineering**
  Concordia University, Montreal, Canada | Jan 2021 - Jan 2023
- **Bachelor of Technology in Electronics and Electrical Engineering**
  Kalinga Institute of Industrial Technology (KIIT), Bhubaneswar, India | May 2013 - May 2017
- **Cours de Français à Temps Complet**
  UQAM - Université du Québec à Montréal, Programme M.I.F.I. | Jan 2023 – June 2023

CERTIFICATIONS

- **Microsoft Certified: Azure Solutions Architect Expert** (Earned: January 14, 2025, Credential ID: 4E95BF36361BFCC5)
- **Microsoft Certified: Azure Administrator Associate** (Earned: January 9, 2025, Credential ID: 4B41DA00F512A3D)
- **Microsoft Certified: Azure Fundamentals** (Earned: December 16, 2024, Credential ID: 2EE4C1450F423669)
- **QA Certified: Machine Learning Advanced & SkG: AZAI AzureML Advanced** (Earned: November 13, 2024 & December 2, 2024, Credential ID: 22219415 & 22272871)
- **QA Certified: SkG: AZAI Gen AI** (Earned: November 29, 2024, Credential ID: 22270980)
- **QA Certified: Cognitive Services Specialist** (Earned: February 13, 2024, Credential ID: 21964107)

PERSONAL PROJECTS

- **IoT-Enabled Healthcare System (2022):** Developed an IoT device and interface for real-time health monitoring.
- **Blood Donation Portal (2021):** Led a team to create an online platform for blood donation coordination.
- **Neural Network Optimization:** Implemented Levenberg-Marquardt algorithm for improved neural network efficiency.

LANGUAGES

- **English:** Fluent
- **French:** Intermediate
- **Hindi:** Native proficiency