

ADITYA VARMA G

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Education

WAYNE STATE UNIVERSITY

Master of Science, Data Science and Business Analytics (GPA 3.93)

DETROIT, MI

Graduated Dec 2024

BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE

Master of Technology, Software Engineering

PILANI, INDIA

Graduated Dec 2023

Professional Experience

GENERAL MOTORS

DETROIT, MI

Intern

May 2024 – Aug 2024

- Led the development of an ML-based customer targeting system that predicted car purchase coupon eligibility with 98% accuracy, driving a 25% boost in campaign conversions while cutting marketing spend by 15% within 2 Agile Sprints.
- Built and optimized 2 CI/CD data pipelines on Azure Databricks that slashed processing times by 40% and delivered \$1.2M in annual cost savings, helping streamline GM's operations and strengthen Detroit's automotive data initiatives

INFOSYS

CHENNAI, INDIA

Technology Analyst

May 2022 – Aug 2023

- Designed and implemented machine learning algorithms to monitor and optimize RPA workflows, ensuring efficiency and reliability in production environments with focus on innovation
- Developed and maintained production-grade ETL pipelines to process and analyze bank transactions, leveraging deep learning with Neural Networks and advanced data analysis techniques
- Conducted research on NLP models focusing on Named Entity Recognition (NER), Information Retrieval, and Information Extraction to enhance process automation and provided technical guidance for deploying scalable AI solutions

TATA CONSULTANCY SERVICES

MUMBAI, INDIA

System Engineer / Risk Division

Nov 2018 – May 2022

- Designed and developed a machine learning algorithm to analyze market trends and provide trading tips, achieving 83.2% accuracy in the grey market for traders
- Managed 4 end-to-end software projects, covering all 6 stages of SDLC (Planning, Analysis, Design, Implementation, Testing, Deployment)
- Deployed 3 ML models into production using MLOps pipelines, improving inference speed by 35%
- Collaborated with cross-functional teams to build a trading application, integrating data analysis insights and prototypes to enhance customer experience and decision-making

Data science project portfolio

WAYNE STATE MENTAL HEALTH CHATBOT USING NLP

DETROIT, MICHIGAN

Wayne State University / Detroit

Oct 2024 – Nov 2024

- Developed a mental health chatbot using deep learning and Natural Language Processing techniques with LLaMA and transfer learning in TensorFlow. Achieved good ROUGE and BLEU Scores by fine-tuning models on Hugging Face datasets, enhancing user interaction and accuracy.

FRAUDULENT TRANSACTION IDENTIFICATION USING AI

DETROIT, MICHIGAN

Wayne State University / Detroit

Jan 2024 – May 2024

- Deployed an XGBoost model with an accuracy of 95% and Detected anomalies in 500K+ transactions, reducing fraud by 22%

Skills

PROGRAMMING LANGUAGES: Python, java, SQL (Oracle SQL, MS-SQL), R, C++

DATA SCIENCE & MACHINE LEARNING: Data Visualization using Tableau, Power BI, Deep Learning (TensorFlow, PyTorch), Natural Language Processing (NLP), Computer Vision, Model Deployment, Model Evaluation, 15+ supervised and unsupervised ML models

TOOLS & TECHNOLOGIES: Azure Databricks, AWS Lambda, EC2, VPC, Terraform, CloudFormation, Jupyter, Git

Recognitions & Interests

RECOGNITIONS: TCS Employee of The Month (recognized for 4 months), TCS Outstanding Contributor (recognized by high-value client)

INTERESTS: Professional (Data Bricks, Snowflake, Large Language Models), Personal (Soccer, Badminton, 90's Bollywood music)