Arjun Ganesh

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Education

VIT Bhopal University **Expected May 2027**
Integrated M.Tech- Artificial Intelligence ,Ongoing *Madhya Pradesh*

Tagore Memmorial HSS **June 2021**
Senior Secondary (Class 12) – STATE, Percentage: 89% *Kerala*

Tagore Memmorial HSS **July 2019**
Secondary Education (Class 10) – STATE, Percentage: 99% *Kerala*

Technical Skills

Data Analysis Tools: Excel (Pivot Tables, VLOOKUP), Power BI, Tableau, SQL, Python (Pandas, NumPy, Matplotlib, Seaborn)
Programming: Python, Java, SQL, HTML, CSS, JavaScript
Libraries/Frameworks: TensorFlow, PyTorch, Scikit-learn, FastAPI
Cloud/Platforms: AWS, GitHub, Google Colab, Salesforce

Projects

Medical Data Extraction System | *Python, NLP, OCR, FastAPI* **2025**

- Developed an automated system to extract structured data (patient details, diagnosis, medications, dosage) from unstructured medical records and prescriptions.
- Implemented Optical Character Recognition (OCR) using Tesseract and applied Natural Language Processing (NLP) techniques for text extraction and entity recognition.
- Designed a FastAPI-based backend to export extracted information in structured formats (JSON/CSV) for integration with hospital databases.
- Improved efficiency of medical data entry by reducing manual effort up to 40% in simulated case studies.

Online Payment Fraud Detection | *Python, CNN, XGBoost, Google Colab* **2025**

- Analyzed large-scale online transaction datasets, performed feature engineering, and applied statistical/data visualization techniques to detect fraudulent patterns.
- Built and evaluated predictive models (CNN + XGBoost) achieving 96% accuracy, improving business decision-making for fraud risk.
- Generated dashboards/reports to present fraud insights, supporting stakeholders in monitoring real-time risks.
- Preprocessed large-scale transaction datasets by applying normalization, feature engineering, and handling class imbalance using SMOTE.
- Implemented CNN for automatic feature extraction from transaction data and leveraged XGBoost for robust classification.
- Achieved an accuracy of 96% and improved detection performance compared to standalone models.
- Executed and evaluated the model entirely in Google Colab, ensuring scalability for real-world deployment.

ML Model - Farm Fusion | *Python, FastAPI, TensorFlow* **2025**

- Developed an ML based model that can be used for crop recommendation, fertilizer recommendation, & plant disease detection.
- Built a robust API using FastAPI to serve these ML models, enabling seamless interaction with a web interface.
- Demonstrated expertise in combining multiple AI models and deploying them via an API for practical applications.

Certifications

Cloud computing **April 2023**
NPTEL (IIT Madras) *Online*
Data Analyst certificate **April 2023**
(oneroadmap) *Online*
Introduction to SQL **December 2023**
(Kaggle) *Online*
IBM AI Engineering **June 2024**
Meta (Coursera) *Online*