

JERIN JISS GEORGE

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EDUCATION

Vellore Institute of Technology University, Bhopal

CGPA: 8.72

B.Tech, CSE (AI & ML Specialization)

August 2022 – May 2026

- Relevant Courses: Data Structures and Algorithms, Computer Networks, Database Management, Object Oriented Programming, Machine Learning

Holy Trinity School, Dewas, Madhya Pradesh

Percentage: 91%

Class XII (CBSE)

April 2020 – March 2022

TECHNICAL SKILLS

Languages: C++, Python, Java, SQL

Backend: MySQL, MongoDB, FastAPI, Flask

Frontend: Streamlit, HTML/CSS

Libraries & Frameworks: pandas, NumPy, TensorFlow, PyTorch, scikit-learn

Developer Tools: Git/GitHub, PowerBI, LaTeX, AWS, Postman, n8n

EXPERIENCE

OSDAG, FOSSEE Project @ IIT Bombay

Remote, India

Summer Fellow - Python & Testing

May 2025 – July 2025

- Built comprehensive Python unit tests using pytest, reducing software bugs in core modules by implementing robust test coverage
- Engineered testing solutions improving QA processes by 10% through systematic validation frameworks
- Developed sophisticated mock environments for GUI interaction validation, ensuring seamless user experience testing

PROJECTS

CodeOptimizer - AI-Powered Coding Platform

Python, FastAPI, LSTM, NLP, Transformers

[Github Link](#)

- Constructed intelligent coding platform implementing Deep Knowledge Tracing (DKT) with LSTM networks for varied user skill progression across 50+ algorithmic concepts
- Engineered Factorization Machines (FM) for personalized problem ranking, analyzing user-problem interactions with 85% accuracy improvement over baseline recommendations
- Integrated NLP pipeline using Transformers to auto-generate contextual MCQs and coding hints, 20+ concepts with automated difficulty classification and concept tagging

Stock Analysis Dashboard

Python, Streamlit, Plotly, Twelve Data

[Project Link](#)

- Developed interactive stock dashboard with real-time and historical market data visualization
- Added SMA/EMA overlays, candlestick/line charts with multi-ticker tracking capabilities
- Integrated multiple APIs (Alpha Vantage, Marketstack, Twelve Data) ensuring 99% data availability

AutoApply Job Automation

Python, JobSpy, Selenium, n8n

[Github Link](#)

- Designed N8N workflow automation for end-to-end application processing with Google API integration
- Created scraping system using Python Selenium, aggregating 150+ weekly opportunities from LinkedIn, Indeed, Naukri, Glassdoor
- Deployed APIs using JobSpy, Selenium libraries increasing application submission rate by 60%

ACHIEVEMENTS

- **Oracle Cloud Infrastructure 2025 Certified Data Science Professional** - Oracle Corporation
- **Applied Machine Learning in Python Certified** - University of Michigan, showcasing expertise in ML algorithms and implementation
- Certified as a Postman Student Expert demonstrating proficiency in API development and testing fundamentals
- Solved 400+ algorithm and data structure problems across multiple platforms including [LeetCode](#) and [GeeksforGeeks](#)