# 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, Selenium, pytest
**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

- Solved 200+ algorithm and data structure problems across multiple platforms including **LeetCode** and **GeeksforGeeks**
- Certified as a Postman Student Expert demonstrating proficiency in API development and testing fundamentals
- Secured global rank of 6634 out of 100,000+ participants in TCS CodeVita Season 12
- **Applied Machine Learning in Python Certified** - University of Michigan, showcasing expertise in ML algorithms and implementation
- Completed comprehensive training in AI/ML technologies with hands-on project development and real-world application experience