

# Vishesh Choudhary

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## PERSONAL SUMMARY

Motivated Machine Learning and Backend Engineer with expertise in building and deploying ML models and scalable backend systems. Proficient in Python, Rust, Go, TensorFlow, PyTorch, Docker, and Kubernetes. Experienced in real-world projects like DDoS attack mitigation and API migration. Backed by an Integrated MTech in Computer Science and multiple certifications in deep learning and programming. Seeking to contribute innovative solutions in ML and backend developer roles.

## INTERNSHIPS

**Machine Learning Engineer Intern**, 06/2023 - 02/2024

**Tune AI**

- Implemented and automated ML pipelines for training, validation, and deployment
- Collaborated with cross-functional teams to integrate ML solutions
- Collaborated with cross-functional teams to integrate ML solutions into production systems
- Presented model performance and results to stakeholders, including executives

**GoLang Backend Developer and UI/UX Engineer Intern**, 03/2022 - 12/2022

**Economize.cloud**

- Designed and implemented user interfaces for data-driven applications, enhancing user experience and functionality
- Integrated Google Cloud Platform and SendGrid API using Go to streamline backend operations and communication
- Collaborated with design and development teams to deliver intuitive and impactful user experiences

## EDUCATION

**Integrated MTech:** Computer Science and Engineering, Expected in 08/2025

**Vellore Institute of Technology** - Vellore, Tamil Nadu

**B.Sc (Honours)** : Computer Science, 06/2020

**Institute for Excellence in Higher Education** - Bhopal, Madhya Pradesh

**High School:** Physics, Chemistry, Maths and Informatics Practices, 01/2019

**Sagar Public School** - Bhopal, Madhya Pradesh

## PROJECTS

- DDoS Attack Mitigation Using SDN and MLP: Developed MLP models to detect DDoS patterns and integrated with SDN for dynamic network adjustments
- Session Hijacking Prevention: Built a secure session management system using Rust, Go, and Kerberos.
- Vostok API Migration: Created a Rust-based layer for seamless REST-to-GraphQL transformation.
- LLM FASTAPI: Deployed a FastAPI-based language model server for high-performance text generation using gRPC.
- Stable Diffusion: Built a REST API for image generation using Stable Diffusion and FastAPI.
- Sitemap Crawler for SEO: Automated SEO data extraction using Go with sitemap parsing and multi-URL handling.

## WEBSITES, PORTFOLIOS, PROFILES

- [linkedin.com/vishesh-choudhary](https://www.linkedin.com/in/vishesh-choudhary)
- [visheshchoudhary.com](https://visheshchoudhary.com)
- [github.com/visheshc14](https://github.com/visheshc14)

## CERTIFICATIONS

- Advanced Branching and Looping in GO
- Concurrent Programming With GO
- Building Distributed Applications with GO
- Bayesian Methods for Machine Learning
- DeepLearning.AI TensorFlow Developer
- Advanced Linear Models for Data Science 1: Least Squares
- Advanced Linear Models for Data Science 2: Statistical Linear Models
- Deep Learning Specialization
- End-to-End Machine Learning with TensorFlow
- Sequence Models for Time Series and Natural Language Processing on Google Cloud
- Advanced C Programming Integrating C and Assembly Language
- Advanced C ThreadSafe Data with Concurrent Collections
- Kotlin For Java Developers
- Functional Programming with Clojure
- Become a Vue.js Developer
- Concurrent Programming with Android Threads Workers and Kotlin Coroutines
- Migrating from REST to GraphQL
- Building GraphQL APIs with ASP.NET Core
- JavaScript Interop in Blazor Applications
- Production Machine Learning Systems
- Recommendation Systems with TensorFlow
- Google - Fundamentals of Digital Marketing
- MongoDB for Java Developers
- Data Modeling MongoDB
- MongoDB Diagnostics and Debugging

## TECHNICAL SKILLS

### Programming Languages:

- Proficient: Python, Rust, Go, C++, Java, SQL, Shell,
- Mobile Development: Native Android, Flutter, React Native
- Web Development: Three.js, Vue, React

### Machine Learning Libraries & Tools:

- TensorFlow, PyTorch, Scikit-learn, OpenCV, NumPy, Pandas

### Data Handling & Visualization:

- Big Data Processing, Data Quality Inspection, Data Preprocessing

### Cloud & Deployment Technologies:

- Docker, Kubernetes, AWS, Terraform