

# Vishisht Mishra

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Portfolio | [github.com/Vishisht16](https://github.com/Vishisht16) | [linkedin.com/in/vishisht-mishra](https://linkedin.com/in/vishisht-mishra)

## EDUCATION

### Central University of Haryana

Bachelor of Technology in Computer Science and Engineering

CGPA: 7.98/10

Mahendragarh, HR

Aug. 2023 – July 2027

## EXPERIENCE

### Full Stack Developer

Oct. 2025 – Present

*Fuzzy Nodes*

Remote

- Contributed to the organization's software landscape in both their main website's frontend and backend systems
- Developing a full-stack Enterprise Resource Planning software from scratch using Next.js

### Azure Cloud Engineer

May 2025 – Nov. 2025

*Faslit Accor*

Remote

- Managed complete Azure-based infrastructure for the company website, leveraging services like Azure Active Directory, Cosmos DB, and Communication Services to ensure secure, scalable, and efficient operations
- Built and maintained CI/CD pipelines using GitHub Actions for the e-commerce website, enabling seamless, automated deployment and minimizing downtime during frequent updates
- Contributing in the development of an AI solution using Azure AI Vision and Azure OpenAI Services, adding an intelligent image analysis based website functionality

### Artificial Intelligence Intern

Feb. 2025 – Apr. 2025

*Planto AI*

Remote

- Worked on building a personalized copilot for developers at client companies
- Integrated UI design, software development and AI to create a RAG based AI system, integrated with developer environments, capable of understanding and suggesting code snippets based on project context

### Artificial Intelligence Trainer (Freelance)

Sep. 2024 – Jan. 2025

*Outlier*

Remote

- Worked under a subsidiary of Scale AI, using prompt engineering techniques to significantly improve performance on various LLMs
- The projects were RLHF-based, focusing on math, science, linguistic and programming tasks

### Open Source Contributor

Sep. 2024 – Nov. 2024

*GirlScript Summer of Code*

Remote

- Worked on ML-based open-source projects, contributing to public repositories in a competitive environment
- Created deep learning models for autocorrect, speech emotion recognition, text-to-music generator app and more

## PROJECTS

### AI Photoshoot Studio | Python, Google Colab, Hugging Face Diffusers, MediaPipe

Aug. 2025

- Developed a full-featured AI Image Generation tool as a web application to give users precise control over the creative process with Stable Diffusion 1.5
- Engineered the core feature using ControlNet and OpenPose, allowing users to dictate the exact pose of generated characters from a control image
- Implemented face preservation mechanism using an inpainting pipeline with automated face detection masks

### Text Synthesis Comparison | Python, TensorFlow, Keras, Hugging Face

Aug. 2025

- Developed a multi-GPU NLP pipeline in TensorFlow/Keras to train and compare LSTM, GRU and Transformer models using MirroredStrategy, with modular architecture, JIT support and custom perplexity-based evaluation
- Optimized data ingestion with caching/prefetching to prevent GPU underuse, and automated hyperparameter tuning with Keras Tuner and a custom Byte-Pair Encoding tokenizer for scalable model training

### Code Summarizer | Python, PyTorch, Transformers, Firebase, Gradio

Apr. 2025

- Developed a web and CLI app that parses GitHub repositories, generates code summaries using CodeBERT embeddings, and stores metadata in Firebase Firestore
- Utilized GitPython, Python AST, and Hugging Face's CodeBERT for code parsing and summarization, with a Gradio UI deployed on Hugging Face Spaces

## RESEARCH WORK

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### Tribal Languages

Feb. 2025 – Present

- Taking on an initiative to bring the lesser-known languages of India into mainstream AI, ensuring these languages are preserved and accessible
- The research involves end-to-end work including data collection in a highly data scarce environment, preprocessing, model training with custom algorithms and deployment to create tools for various purposes
- Collaborating with linguists, this project aims to integrate the underrepresented languages into AI systems and establish a benchmark for any such future endeavors
- Currently, experiments are scheduled to be run on Param Shakti Supercomputer

## TECHNICAL SKILLS

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**Languages:** Python, C, C++, SQL

**Frameworks:** PyTorch, TensorFlow, Hugging Face, LangChain, LangGraph, Flask, Next.js

**Developer Tools:** Git, Docker, Google Cloud Platform, Microsoft Azure, VS Code, Visual Studio

**Libraries:** pandas, NumPy, Matplotlib, scikit-learn, NLTK, spaCy, OpenCV

## KEY COURSES TAKEN

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**Core Computer Science:** Data Structures and Algorithms, Analysis and Design of Algorithms, Database Management Systems, Theory of Computation, Programming with Python, Data Analysis with Python, Programming for Problem Solving, Object-Oriented Programming in C++

**Systems & Architecture:** Computer Organization and Architecture, Microprocessor Interfacing, Digital Electronics, Computer Networks

**Mathematics & Science:** Engineering Mathematics I-III, Discrete Mathematics, Physics, Chemistry

**Applied & Interdisciplinary:** Economics, Fundamentals of Management

## CERTIFICATIONS

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**GitHub Copilot**

[Verify](#)

**Oracle AI Vector Search Certified Professional**

[Verify](#)

**GitHub Foundations**

[Verify](#)

**Oracle Cloud Infrastructure Certified AI Foundations Associate**

[Verify](#)

## SUMMARY

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As a computer science student, I'm very much interested in using tech to build cool software. I'm mostly experienced in AI systems, DevOps pipelines, cloud systems and know of web development. I am always looking for opportunities to learn new stuff and contribute however I can to any real-world projects.