

# Devasheesh Mishra

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## PROFESSIONAL SUMMARY

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- **Technical Lead** at GeeksforGeeks (GFG), conducting **machine learning workshops** and organizing **hackathons** for 200+ students
- Developed advanced projects including **GPT-2 model implementation** and **Automatic Speech Recognition System** using **PyTorch**, **Transformers**, and **FastAPI**
- Proficient in **Python**, **C/C++**, **SQL**, **PyTorch**, **Transformers**, **GCP**, **AWS**, **Azure**, **Docker**, and **Git** with multiple **hackathon wins** and **ML certifications**

## SKILLS & INTEREST

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

**Frameworks & Libraries:** PyTorch, Transformers, TRL, Pydantic, FastAPI, Pandas, NumPy, Matplotlib

**Cloud & DevOps:** Google Cloud Platform, AWS, Azure, Docker

**CI/CD:** GitLab CI, GitHub Actions

**Databases:** PostgreSQL, MongoDB, Vector Databases (Milvus, Pinecone)

**Machine Learning/AI:** Large Language Models (LLMs), Model Training, Fine-tuning

**Version Control:** Git, GitHub

**Testing:** Unit Testing, Integration Testing, Pytest

## PROJECTS

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### GPT-2 from Scratch | *PyTorch, Transformers*

- Implemented a decoder-only GPT-2 model (135M parameters) trained on 2B tokens using PyTorch and Transformers
- Utilized Distributed Data Parallelism (DDP) with 2x Tesla P40 GPUs, reducing training time to 19 hours
- Optimized performance with Flash Attention 2, Gradient Accumulation, and Mixed-precision training
- Developed custom tokenizer with 51K vocabulary size, trained on 100K tokens with over 50,000 merges

### Automatic Speech Recognition System | *PyTorch, Transformers, FastAPI, WebSockets*

- Fine-tuned 2x Whisper models (750M& 1.1B parameters) for Hindi using 10,000 hours of audio from the Gram Vani Dataset
- Achieved Real-Time Factor (RTF) of 0.3 and reduced inference latency to 200-300ms for 30s audio chunks
- Implemented data cleaning, Voice Activity Detection (VAD), and increased decoding heads for improved performance
- Developed low-latency server using FastAPI and WebSockets, incorporating speculative decoding and Medusa technique

## WORK EXPERIENCE

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### GFG Technical Lead

April 2024 – Present

*SRM University*

*Delhi-NCR, IN*

- \* Conducted comprehensive machine learning workshops for 80+ students, teaching essential ML and DL principles and applications, which enhanced participants' practical skills and resulted in a 25% improvement in course project quality
- \* Organized and led 10+ GeeksforGeeks (GFG) workshops across SRM, facilitating doubt clearance sessions that enhanced coding proficiency for over 200 students, resulting in a 40% increase in coding competition participation

### GFG Core Tech Member

October 2022 – April 2024

*SRM University*

*Delhi-NCR, IN*

- \* Contributed as a Core Member of GFG, organizing the Phoenix Hackathon, where I achieved 1st place
- \* Organized and led Hack-Innovate, a two-day hackathon during the tech fest, attracting over 300 participants and showcasing 50+ innovative solutions, significantly enhancing event participation and engagement by 40%

## ACHIEVEMENTS

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<b><u>Phoenix Hackathon:</u></b> Secured 1st position	(2022)
<b><u>Code-A-Thon:</u></b> 1st runner up	(2022)
<b><u>InnoSprint D4 Hackathon:</u></b> 1st runner up	(2023)
<b><u>Live-Project Competition:</u></b> 2nd runner up	(2023)
<b><u>SIH:</u></b> 1st runner up at college level	(2023)

## CERTIFICATIONS

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<b>DeepLearning.AI:</b> <u>Neural Networks and Deep Learning</u>
<b>Google:</b> <u>Transformer Models and BERT Model</u>
<b>Udemy:</b> <u>Machine Learning - Fundamental of Python Machine Learning</u>
<b>Udemy:</b> <u>PyTorch for Deep Learning Bootcamp</u>

## EDUCATION

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<b>SRM Institute of Science and Technology</b>	Delhi NCR, IN
<i>Bachelor of Technology in Computer Science, Specialization in AI and ML; CGPA: 8.0</i>	<i>May 2022 – May 2026</i>
* <b>Relevant Coursework:</b> Data Structures and Algorithms, Machine Learning, Deep Learning, Natural Language Processing, Database Systems, Artificial Neural Network, Computer Networks	