

# PRAGALBH SHARMA

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## CERTIFICATES

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### IBM AI Engineering Professional Certificate

(Apr 2025)

- Completed a comprehensive program on AI and deep learning, including machine learning, neural networks, and NLP.
- Built and deployed ML models using Python, Scikit-learn, TensorFlow, Keras, and IBM Watson tools.
- Projects included chatbots, sentiment analysis, and image classification, focusing on real-world AI deployment.

### Gen AI Advanced Fine-Tuning for LLMs

(Apr 2025)

- Learned advanced techniques for fine-tuning large language models (LLMs) using domain-specific datasets
- Covered instruction tuning, parameter-efficient fine-tuning (PEFT), LoRA, and evaluation metrics like BLEU/BERTScore.
- Applied concepts to build task-specific generative AI systems using Hugging Face Transformers and Colab.

## PROJECTS

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### Medical Report Summarizer using LLMs

- Developed an AI-driven system to summarize diagnostic and clinical reports using Flan-T5 LLM Model.
- Directed BERTScore analysis across 500 summarized medical reports which led to 41% improvement in model.
- Modernised summarization accuracy from 52% to 93% by optimizing prompt design.
- Deployed as a Colab-based prototype for low-resource execution in healthcare setting.

### Public Health Insight Model using LLMs

- Leveraged Flan-T5 to identify trends, resource gaps and policy suggestions from structured health summarizers.
- Achieved a notable 95% correlation with human expert evaluations.
- Increased insight accuracy from 36% to 90% by refining instruction prompts and structuring model inputs.
- Engineered a user-friendly interface, resulting in 99% of health administrators improved data accessibility.

## SKILLS

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- **Concepts:** Data Structures, Algorithms, LLM, NLP, Machine Learning, Deep Learning, Gen AI
- **Frameworks:** Pytorch, OOP, Keras, Sci-kit Learn, Databases, Hugging Face, Pandas, Tensorflow
- **Programming:** Java, SQL (MySQL), C++, Python, HTML, CSS, Javascript

## EXTRA-CURRICULAR ACHIEVEMENTS

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- Led a team to the finals of AOS Buildathon and NASSCOM Hackathon.
- Solved 400+ Leetcode problems and 5X Hackathon Finalist.

## CO-CURRICULAR ACHIEVEMENTS

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- Displayed strategic decision making as Leader in NASSCOM Hackathon that led team to finals.
- Spearheaded 4 Debates by delivering focused fact-driven arguments as an influential communicator.

## EDUCATION

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### • B.Tech (CSE)

(2023-2027)

Cumulative GPA - **8.28**, VIT Bhopal University, Bhopal, M.P.