

# Ayush Kumar Mourya

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## Education

Indraprastha Institute of Information Technology, Delhi

Aug 2022 – May 2026

B.Tech in Computer Science, Minor in BioScience

## Experience

Research Intern, Complex Systems Lab, IIIT Delhi

Jan 2025 – Apr 2025

[GitHub Link](#) | *Python, NLP, LSTM, Fine-Tuning LLMs, Hugging face. Web Scraping*

- Designed a generative model to create stepwise cooking recipes using **LSTM** and transformer-based architectures like **GPT-2** and **DeepSeek Qwen 1.5B**.
- Developed token formats, preprocessing pipelines, trained and fine tuned Deepseek & GPT-2 models on a large-scale dataset of **2,00,000 recipes**.
- Achieved BLEU scores of - **0.361 (LSTM)**, **0.583 (GPT)** and **0.723 (DeepSeek Qwen 1.5)**.

Web Developer, Bizify Associates

May 2025 – Present

[GitHub Link](#) | *HTML, CSS, JavaScript* | Startup

- Built a **responsive** and user-friendly website for Bizify to establish a strong digital identity.
- Integrated smooth navigation and intuitive design to communicate **Bizify's mission and services**.
- Actively contributing to **expanding platform features** and enhancing **user experience**.
- Collaborating with the team as Bizify scales its operations and prepares to onboard new clients.**

## Projects

Rice Image Classification

Aug 2024 – Nov 2024

[GitHub Link](#) | *Python, scikit-learn, Tensorflow, NumPy, Matplotlib, CNN, ML, OpenCV*

- Developed an end-to-end pipeline for classification of **75,000+** rice grain images across **5 varieties**.
- Used both **Machine Learning** models and then **CNNs** to further improve accuracy.
- Applied **outlier removal, normalization, and data augmentation** to boost performance.
- Achieved **96.12%** accuracy using CNNs and an average of **92%** accuracy using ML models.
- Tracked model performance with **confusion matrices**, training loss plots, and accuracy curves.

Gene Expression Analysis

Jan 2024 – May 2024

[GitHub Link](#) | *Python, Pandas, Bioinformatics, PCA, Machine Learning*

- Analyzed microarray gene expression data to differentiate between **acute and chronic leukemia**.
- Performed normalization, built classification models and improved accuracy from **90%** to **94%**.
- Identified top gene features after dimensionality reduction & using **statistical analysis** & confusion matrices.

## Technical Skills

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

**Data Scientist:** Machine Learning, Statistical Analysis, Exploratory Data Analysis, Data Visualization

**Core:** DSA, Operating Systems, Object Oriented Programming, Database Management, Computer Networks

**Web Development:** HTML, CSS, JavaScript

**Tools:** Git, VS Code, IntelliJ, MySQL, Linux, Figma, Canva

## Positions of Responsibility

Head Teaching Assistant, IIIT Delhi

Aug 2024 – Dec 2024

- Led a team of **14 TAs** for **Intro to Programming** course.

Instructor & Volunteer, IIITD Summer Camp

May 2024 – Jun 2024

- Taught programming and other activities to students of **Grade 6 to 9**.