

# Pranay Sharma

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## Summary

Machine Learning Engineer with 1 year of experience in Python, data modelling, automation, and backend development. Currently working as an Assistant Professor in the department of AIML. Proven ability to design and implement efficient solutions. I am applying for the position to contribute technical expertise and collaborate with cross-functional teams in developing robust systems.

## Experience

### Assistant Professor

G L Bajaj Institute of Technology and Management

August 2024 - Present   Noida

- Teaching AI and Machine Learning
- Guiding students in their project work related to Image Processing and AI
- Developing pedagogy for application-based learning practise

### Data Science Intern

Fledge HealthTech

July 2023 - May 2024      New Delhi

- Produced data visualizations and reports, increasing data-driven decision-making and streamlining reporting processes.
- The foundation for new standards for PIAQ was laid down based on the subject's perception of IAQ.

## Projects

### Indoor Air Quality and Its Perception Associated with Occupant

#### Health in Composite Climate

Fledge HealthTech

- Device calibration of the low-cost sensor with the standard sensor through Regression Modeling
- Determination of new standard for PIAQ and Thermal Comfort through data analysis
- Data Visualization for a better understanding of non-technical team members

### Data Compression Website based on ExpressJS Server

Independent Project

- Utilizing a lossy compression library for determining the amount of loss of information
- Developed server-rendered page based on modern Glace UI
- Customized the options for percentage and specific threshold size for deciding the amount of compression.

### Identifying Cervical Cancer through Transfer Learning and Model Mergin

Manipal Academy of Higher Education:

- > Interpreting learning of each neuron vector through image filtering
- > Merging ResNet and AlexNet to bring the best of both.
- > Transfer learning is performed by adding an extra softmax layer and freezing other existing weights.

### Custom Admin Panel

Independent Project

- Utilizing the SHA-256 algorithm to hash passwords
- Developed server-rendered UI for fast loading and better SEO
- Implemented JWT for authorization for access
- Set up PostgreSQL to perform CRUD operations on user data

## Skills

**Programming Languages & Tools:** Python, C, JavaScript, SQL, R, Visual Studio Code, Node.js, Express.js, PostgreSQL, MongoDB

**Backend Development & APIs:** RESTful API, HTTP/2, HTTP/3, JSON, SQL, Node.js, Express.js

**Data Science & Machine Learning:** TensorFlow, Scikit-learn, Keras, Numpy, Pandas, Matplotlib, Regression Modeling, NLP, Transformers, CNN, FNN

**Systems & Software Engineering:** Data Structures, Operating Systems, Data Analysis, Data Modeling, Data Visualization

## Education

### Master of Engineering, Artificial Intelligence and Machine Learning

Manipal Academy of Higher Education

2024      9.05

Meritorious student scholarship awardee

### Bachelor of Technology, Computer Science and Engineering

Dr. A.P.J Abdul Kalam Technical University   2022      7.25

## Certifications

### Unsupervised Learning, Reinforcement Learning and Recommender Systems

Coursera

### Advanced Learning Algorithms

Coursera

### Transformer Model and BERT Model

Coursera

### Complete Javascript Mastery

Udemy