

Priyesh Shukla

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[LinkedIn](#) | [GitHub](#)

Summary

M.Tech student in AI & ML with strong expertise in data structures, algorithms, and problem solving. Proficient in machine learning, deep learning, and neural network architectures using TensorFlow and PyTorch. Experienced in optimizing algorithms and developing scalable AI solutions. Passionate about programming, research-driven problem solving, and AI applications in real-world scenarios.

Technical Skills

Languages: Python, Java, C/C++ , SQL, HTML, CSS, JavaScript

Frameworks & Tools : TensorFlow, PyTorch, scikit-learn,Keras VS Code, Google Colaboratory, GitHub, Git

Coursework:Data Structures and Algorithm, DataBase Management System, Compiler Design,Computer Networks, Operating Systems, Computer Architecture, Deep Learning, Machine Learning

Key Skills:Deep Learning, Machine Learning, Neural Networks, Data Mining, Web Scraping, Feature Engineering, Model Optimization, Object-Oriented Programming, Database Management

Projects

Lung Sound Classification with Multi-Feature Integration Utilizing a Lightweight CNN Model

- Developed a CNN architecture with Squeeze-and-Excitation (SE) and dropout blocks for lung disease detection from audio signals
- Integrated diverse audio features (MFCC, RMS, ZCR, wavelet coefficients, spectral centroid) for improved model performance
- Achieved 92% test accuracy and F1 score of 0.92 on balanced 10-class audio datasets
- Tools Used: Python, Deep Learning concepts

Web Mining for Sustainability Communication in Tourism Websites

[Link](#)

- Developed a dictionary-based analysis framework with five key topics
- Extracted and analyzed website content to evaluate communication trends, improving data-driven insights for sustainable tourism strategies.
- Utilized text mining and analytical techniques for scoring and ranking websites based on sustainability.
- Tools Used: Python, Web Crawling, Web Mining concepts

Experience

Teaching Assistant – Object-Oriented Programming in Java

"Aug 2024 – Dec 2024"

- Assisted in teaching core OOP concepts such as design patterns, inheritance, polymorphism, and exception handling.
- Mentored **50+ students** through practical coding exercises and real-world Java applications.
- Evaluated assignments, provided feedback, and supported students in improving their programming skills.

Education

**PDPM Indian Institute of Information Technology Design Manufacturing ,
Jabalpur**, M.Tech in AI/ML

"Aug 2024 – Present"

- GPA: 7.5/10

Shri Shankaracharya Technical Campus, B.Tech in Computer Science and
Engineering

"Jul 2018 - Jun 2022"

- GPA: 8.6/10