

Piyush Kumar

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EDUCATION

VIT Bhopal University

Bachelor of Technology in Computer Science and Engineering – CGPA: 8.44

Bhopal, MP

Nov 2022 – Present

TECHNICAL SKILLS

Python, C++, SQL, HTML/CSS, JavaScript, Scikit-learn, Pandas, NumPy, Firebase, Jupyter Notebook, Git, GitHub, LLMs, Few-shot and zero-shot inference, Prompt engineering

PROJECTS

Music Generation using Gen-Ai | Python, Hugging Face Transformers, PyTorch, Jupyter Notebooks *Apr 2025*

- Successfully fine-tuned a pre-trained generative transformer using few shot inferences to create mood-aligned music clips.
- Designed and applied classification rules for genre labeling systems, enhancing model output quality by 20%.
- Yielded >85% positive user-satisfaction rating in blind listening tests across 50 college participants.
- Packaged demo in an interactive Jupyter notebook for real-time prompt-to-audio generation.

Parkinson Analyzer | Python, Scikit-Learn, CNN, RNN

Nov 2024

- Built a machine learning platform for the diagnosis of Parkinson's disease.
- The model achieved a high accuracy of 98
- This was a research-based project.

Comprehensive Analysis of Classification Algorithms | Python, Scikit-learn, Pandas, Matplotlib *July 2025*

- Implemented and compared 7 classification algorithms (Logistic Regression, k-NN, SVM Linear/RBF, Decision Tree, Random Forest, Naive Bayes) on UCI wine dataset.
- Executed comprehensive data preprocessing, visualization, and feature analysis on 11 physicochemical properties to accurately predict wine quality ratings.
- Achieved 91.25% test accuracy with Random Forest classifier; evaluated performance using confusion matrices, cross-validation, precision, recall, and F1-score metrics.

CERTIFICATIONS

IBM-DevOps Fundamentals March 2025

EXTRA-CURRICULAR

Tech Lead, Rajasthan Club - Orchestrated technical workshops and hackathons, leading a 15-member team, successfully attracting over 500 participants and establishing the club's technical reputation.

Runner-up in IDEATHON '22 - Recognized among top AI/ML innovations at VIT Bhopal for developing a novel solution to help students effectively navigate their academic workload.