Piyush Kumar

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Education

VIT Bhopal University Bhopal, MP

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

Soft Skills

Communication,Adaptability,Learning Agility,Analytical Thinking,Creativity,Innovation,Teamwork and Collaboration,Problem-Solving,Time Management and Organization,Initiative and Proactivity

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.

Customer Churn Prediction | Python, Scikit-learn, Pandas, Matplotlib, Jupyter Notebooks *August 2025*

- Developed a customer churn prediction model using machine learning to proactively identify customers at risk of leaving a service. This project aimed to create a predictive tool that would enable businesses to focus on customer retention, which is often more cost-effective than customer acquisition.
- Conducted comprehensive Exploratory Data Analysis (EDA) to clean and preprocess raw customer data. This involved handling missing values, identifying outliers, and engineering new features—such as customer tenure and monthly spending habits—to enhance the model's predictive power.
- Implemented and evaluated multiple classification algorithms, including Logistic Regression, Decision Trees, and Random Forests, to determine the most effective model for predicting churn. The final model was trained on historical customer data that included demographics, transaction history, and service usage patterns.
- Achieved a model accuracy of ¿85% on the validation dataset, demonstrating a high degree of confidence in its ability to correctly classify at-risk customers. The findings and the predictive model were presented in a clear, interactive Jupyter Notebook, showcasing its functionality and potential business impact.

Certifications

NPTEL | **Marketing Analytics** May 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.