Khushi Pandey

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Education

VIT Bhopal University Jul 2022 – Expected 2026
Bachelor of Technology in Computer Science (Cloud computing and Automation) *CGPA: 8.97*

Technical Skills

Languages: Java, Python, SQL
Data Science: EDA, Data Preprocessing, Data Cleaning, Feature Engineering
Machine Learning : Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn,OpenCV, PyTorch, TensorFlow, Spacy
Databases Cloud : MySQL, SQL Server, Cloud Fundamentals (AWS, Azure basics)

Experience

ML Intern Oct 2024 – Dec 2024
Infosys Springboard Program

- Developed MediScan, a deep learning-based eye disease detection system using EfficientNetB3, achieving 93% accuracy in classifying cataract, diabetic retinopathy, glaucoma, and normal conditions.
- Optimized image preprocessing (noise reduction, normalization) with OpenCV, improving feature extraction in medical imaging.
- Fine-tuned VGG19, ResNet50, and EfficientNet in PyTorch, reducing training time while improving model robustness.
- Designed scalable workflows for AI-powered telemedicine integration, enabling early detection in resource-constrained regions./Python, PyTorch, OpenCV, Flask, Pandas, Streamlit

Projects

Students Performance Analyzer | *Individual* Jan 2025 – May 2025

- Developed a Machine Learning project to predict student math scores with an 88% R2 using Linear Regression, analyzing demographic, academic, and socio-economic factors. Conducted extensive EDA on 1000 records, revealing key insights into performance drivers like lunch type and gender.
- Developed a modular pipeline, preprocessing data and training various models (Linear Regression, Random Forest) with GridSearchCV. Built a Flask web application with a responsive UI for real-time student math score predictions./Python, Scikit-learn, Flask, Pandas, Matplotlib

MyExpense | *Individual* Jun 2025 – Aug 2025

- Developed Predictive Expense Analytics with Machine Learning: Leveraged Python and machine learning algorithms to implement predictive models for analyzing user spending patterns in the MyExpense application, enabling students to gain actionable insights into their financial habits.
- Built a Cross-Platform Application with PyQt6: Designed and developed a responsive desktop application using PyQt6, integrating Python for robust backend logic to manage real-time income and expense tracking, ensuring seamless performance across multiple platforms./Python, PyQt6, Pandas, SQL

Co-Curricular Activities

Ericsson Edge Academia Program | *Top 500| 2024*

- Completed virtual sessions and courses on emerging technologies, enhancing skills in software development

Zelestra Hackathon | *80th Rank* | *2025*

- Trained a machine learning model to predict energy consumption, generating a prediction CSV file
- Optimized model accuracy using feature engineering, improving predictions by 89.88%

Solvit Hackathon | *Semifinalist| 2025*

- Developed a resume analyzer and chatbot to parse resumes and provide feedback using NLP techniques.

SHELL-AI Hackathon | *Top 130| 2025*

- Developed Macine Learning model with prediction accuracy 87.6%.