

# Khushi Pandey

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## EDUCATION

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### VIT Bhopal University

*Bachelor of Technology in Computer Science (Cloud computing and Automation)*

Jul 2022 – Expected 2026

CGPA: 8.97

## TECHNICAL SKILLS

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**Languages:** Java, Python, SQL, JavaScript, HTML/CSS

**Machine Learning :** TensorFlow, OpenCV, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, Spacy, NLP, Deep Learning, Supervised Learning, Regression, Classification, EDA, Data Preprocessing, Data Cleansing, Feature Engineering

**Developer Tools:** Git, Docker, AWS, IBM Cloud, VS Code

## PROJECTS

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### Eye Diseases Classification | *Individual*

Oct 2024 – Dec 2024

- \* Developed a deep learning model using PyTorch and EfficientNet B3 for eye disease classification, implementing image preprocessing and segmentation to achieve 95 percent diagnostic accuracy
- \* Fine-tuned EfficientNet B3 with Adam optimizer and CrossEntropyLoss, optimizing the convolutional neural network to attain 95 percent test accuracy on a multi-class medical imaging dataset
- \* Built an efficient data pipeline with torchvision, DataLoader, and CUDA, leveraging data augmentation and Matplotlib visualization to ensure robust model evaluation

### Students Performance Analyzer | *Individual*

Jan 2025 – May 2025

- \* Developed a machine learning model to predict students' math scores using socio-academic factors such as parental education, lunch type, and test preparation course participation
- \* Preprocessed real-world data for feature encoding, outlier removal, and visualization to uncover impactful trends in student performance
- \* Trained and evaluated multiple regression models (Linear Regression, Random Forest) to determine the most accurate predictor of math scores

### MyExpense | *Individual*

Jun 2025 – Aug 2025

- \* Developed a cross-platform desktop application using PyQt6 to help users manage and visualize daily income and expenses in real-time, especially for students
- \* Integrated HTML/CSS for styling embedded views and created a clean, responsive UI to enhance user experience

## EXPERIENCE

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### Automation Intern

Nov 2024 – Jan 2025

*TATA PRASIKSHAN 2024*

- \* Designed and developed a full-stack hospital management system using ASP.NET MVC to streamline patient, doctor, and appointment records. Created a service to provide gradients across VS and VS add-ins, optimizing its performance via caching
- \* Implemented secure user authentication, form validations, and dynamic routing to ensure smooth user interaction

### ML Intern

Oct 2024 – Dec 2024

*Infosys Springboard Program*

- \* Developed MediScan: Eye Disease Classification, mastering deep learning models by fine-tuning EfficientNet-B3 with PyTorch, applying image preprocessing and segmentation to achieve 95 percent accuracy in multi-class eye disease detection
- \* Gained expertise in ML and DL pipelines, implementing data processing with torchvision, DataLoader, and CUDA, and evaluating model performance using Matplotlib and sklearn metrics for optimized outcomes

## CO-CURRICULAR ACTIVITIES

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### **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 89.80

### **Solvit Hackathon** | *Semifinalist* | 2025

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