

# Ayush Kiran Patil



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## EDUCATION

### VIT Bhopal University

B.Tech. in Computer Science — CGPA: 8.20

Bhopal, Madhya Pradesh

July 2022 – Present

### SHSA School

Class XII - Percentage: 95.33%

Jalgaon, Maharashtra

July 2020 – May 2021

### MGSM'S Oxford School

Class X - Percentage: 87.2%

Jalgaon, Maharashtra

July 2018 – May 2019

## EXPERIENCE

### Data Analyst Intern

Flologic Systems Pvt. Ltd.

Sept 2025 – Dec 2025

Pune, Maharashtra (Remote)

- Executed data analysis, interpretation, and visualization initiatives contributing to business data optimization and strategic decision-making processes.
- Developed SQL queries and Python scripts to extract, transform, and analyze datasets from multiple sources, identifying key trends and insights.
- Created interactive dashboards and visualizations using Power BI to communicate complex data findings to stakeholders and enhance data-driven insights.
- Demonstrated strong analytical capabilities and professionalism while maintaining adherence to company confidentiality policies and standards.

## PROJECTS

### Pneumonia Detection from Chest X-rays Using CNN | TensorFlow, Keras, OpenCV August 2024 – Dec 2024

- Designed and implemented a custom Convolutional Neural Network (CNN) in TensorFlow to effectively detect pneumonia from a dataset of over 5,800 chest X-ray images.
- Achieved a 90.54% validation accuracy for binary classification (Pneumonia vs. Normal), demonstrating high model reliability and its potential as a clinical decision-support tool.
- Applied advanced data augmentation and preprocessing techniques to strategically address class imbalance and improve the model's ability to generalize to new, unseen data.
- Integrated the final model into a Flask-based web application, enabling medical professionals to receive real-time diagnostic predictions by uploading X-ray images.

### CNN-Based Kidney Disease Classification | TensorFlow, Keras, OpenCV

April 2024 – July 2024

- Developed and trained a Convolutional Neural Network (CNN) using TensorFlow and Keras to accurately classify kidney abnormalities from a dataset of 12,000+ CT scan images.
- Engineered a multi-class classification model to distinguish between four categories (Normal, Cyst, Tumor, Stone), achieving a 91% validation accuracy and improving diagnostic precision.
- Implemented a robust data pipeline, incorporating image preprocessing, normalization, and data augmentation techniques to enhance model generalization and prevent overfitting.
- Designed the system for integration into a user-friendly interface for real-time predictions, providing a valuable tool for clinicians to aid in the early detection of kidney disease.

## TECHNICAL SKILLS

**Languages:** Python, SQL (Microsoft SQL Server)

**Frameworks & Libraries:** Pandas, NumPy, Matplotlib, Scikit-Learn, OpenCV, Tensorflow, Keras

**Tools & Others:** AWS, Excel, Power BI

## CERTIFICATIONS

- Marketing Analytics – Nptel, Apr 2025
- Generative AI with IBM Watsonx – IBM, Apr 2025