

# Vishwas Kaushik

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## Experience

### Teaching Assistant, NIIT University, Neemrana

Aug 2023 - May 2025

Worked in the Centre of Excellence in Educational Technology (CoEET), contributing to project planning, data analysis, and technology integration to optimize student project workflows.

- Coordinated and tracked **80+ academic projects per semester**, mapping student teams to industry-relevant initiatives using survey-based data analysis.
- Researched, deployed, and managed technology tools (Asana, CMS) to streamline collaboration across **6+ desks** and enhance feedback channels.
- Designed and implemented project allocation and evaluation workflows using Excel and survey data, making the process more robust and systematic for consistent execution each semester.

## Projects

### Riskos: Stock Risk Analysis Web App | [GitHub Link](#)

- Built a full-stack web app with Python, JavaScript, React, and financial APIs to evaluate portfolio risks (VaR, CVaR, Sharpe Ratio) and forecast volatility (ARIMA, GARCH).
- Containerized the application using Docker and automated build/test processes via a Jenkins CI/CD pipeline, enabling seamless local updates on each Git push.

### Empowering Rural Healthcare through AI Solutions

- Built a multimodal cancer stage prediction pipeline combining deep learning on medical images (ResNet18, DenseNet121) using late fusion ensemble techniques.
- Conducted a comparative study against baseline models and explored Generative AI for synthetic dataset creation to address data scarcity, improving robustness in a research context.

### Predictive Modelling Case Study Portfolio | [GitHub Link](#)

- Completed 11 end-to-end machine learning case studies in Google Colab using CSV datasets, applying techniques such as exploratory data analysis (EDA), regression, classification, clustering, time series forecasting, feature engineering (PCA), deep learning (CNNs), and model evaluation with cross-validation.
- Built domain-specific solutions across finance, astronomy, e-commerce, and computer vision, gaining practical experience in translating data into actionable insights through statistical analysis and predictive modelling.

## Education

### B.Tech. in Computer Science, NIIT University

2022 to 2026

CGPA: 8.62

### XII, RS MEMORIAL INT SCHOOL (CBSE)

2021

### X, Central Academy (CBSE)

2019

## Skills

- Programming & Libraries:** Python, R, JavaScript, SQL, Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn
- Databases:** MySQL, MongoDB
- Data Analysis & Visualization:** Power BI, Exploratory Data Analysis (EDA)
- Frameworks & Tools:** Docker, Jenkins, Git, Asana, Jupyter Notebook
- Core Competencies:** Machine Learning, Artificial Intelligence, Statistical Analysis, Predictive Modelling, Data Science