

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

Predictive Modeling 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 modeling.

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

- Developed a full-stack web app with Python, React, and financial APIs (Yahoo Finance, Alpha Vantage, Tingo) to evaluate portfolio risks (VaR, CVaR, Sharpe Ratio) and forecast volatility (ARIMA, GARCH) for **50 Nifty50 index stocks**.
- Containerized the app with Docker and configured CI/CD pipelines in Jenkins, enabling automatic builds and seamless updates on every code push.

Empowering Rural Healthcare through AI Solutions (R&D)

- Implemented a multimodal cancer stage prediction pipeline combining medical image models (ResNet18, DenseNet121) with late-fusion ensembles, and designed an NLP component for clinical reports; ensemble stacking **improved validation accuracy from ~53% to ~84%**.
- Researched and compared 10+ studies in deep learning, NLP (BERT/XLNet), and Generative AI, exploring synthetic data generation to address scarcity and strengthen model robustness.

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

- Languages & 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, Deep Learning, Statistics, Predictive Modeling, Big Data Concepts