

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.	
<ul style="list-style-type: none">Coordinated and tracked 80+ academic projects per semester, mapping student teams to industry-relevant initiatives and mentoring juniors in project workflows using survey-based data analysis.Researched, deployed, and managed technology tools (Asana, CMS) to streamline collaboration across 6+ desks, enhancing efficiency, feedback channels, and tool adoption.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
<ul style="list-style-type: none">Developed a full-stack web app with Python, React, and financial APIs 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 for seamless deployment, supporting data-driven decision-making for retail investors.
Empowering Rural Healthcare through AI Solutions (R&D)
<ul style="list-style-type: none">Implemented a multimodal cancer stage prediction pipeline combining medical image models (ResNet18, DenseNet121) with late-fusion ensembles; explored integration of NLP methods for clinical reports. Ensemble stacking improved validation accuracy from ~53% to ~84%.Researched 10+ studies in deep learning, NLP (BERT/XLNet), and Generative AI (synthetic data generation) to address medical data scarcity and improve robustness of healthcare AI models.
HR Analytics Dashboard (Employee Attrition) GitHub Link
<ul style="list-style-type: none">Developed an interactive Power BI dashboard (IBM HR dataset, ~1.4K records) with DAX measures and calculated bands to track attrition KPIs across departments, job roles, and demographics.Identified key attrition drivers (low salary, overtime, low satisfaction), highlighting high-risk roles such as Sales Representatives (40% attrition) to support strategic HR retention decisions.
Predictive Modeling Case Study Portfolio GitHub Link
<ul style="list-style-type: none">Completed 11 end-to-end ML case studies in Google Colab using CSV datasets, applying EDA, regression, classification, clustering, time series forecasting, PCA, CNN, and cross-validation.Built domain-specific models across finance, astronomy, e-commerce, and computer vision, translating data into actionable insights through statistical analysis and predictive modeling.

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

<ul style="list-style-type: none">Languages & Libraries: Python, R, JavaScript, SQL, Pandas, NumPy, Scikit-learn, Matplotlib, SeabornDatabases: MySQL, MongoDBData Analysis & Visualization: Power BI, Exploratory Data Analysis (EDA)Frameworks & Tools: Docker, Jenkins, Git, Asana, Jupyter NotebookCore Competencies: Machine Learning, Artificial Intelligence, Deep Learning, Statistics, Predictive Modeling, Big Data Concepts
