

Vishva Desai

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EDUCATION

Birla Institute of Technology and Science, Pilani

BE (Hons.) in Computer Science and MSc (Hons.) in Mathematics – CGPA: 8/10

Hyderabad, India

Aug 2020 - May 2025

EXPERIENCE

Model Risk Quant (Wealth Management) Intern

July 2024 - Dec 2024

Morgan Stanley Advantage Services (Skills): Statistics, Finance, Text Analytics, Risk

Mumbai, Maharashtra

- Implemented model on manager selection for US equity mutual funds using **XGBoost** and **Natural Language Toolkit**
- Privileged the use of **Black-Scholes** and **Barone-Adesi and Whaley** models for **employee stock options** model which will be utilized by multiple teams.

Data & Analyst Intern

May 2023 - Aug 2023

Sonata Software Ltd. (Skills): Matplotlib, Analytics, Visualization, AI/ML

Bangalore, Karnataka

- Worked on predicting agricultural yields by **analyzing satellite imagery** along with historical soil and weather data.
- Used **ETL** and **data preprocessing** techniques to improve **data quality** by filtering out satellite images with cloud cover. Applied machine learning models like **Regression** and **Artificial Neural Networks**.

Research Intern

May 2022 - Sep 2022

CSIR - CEERI Lab (Skills) : Python, OpenCV [Link](#)

Chennai, Tamil Nadu

- Innovatively designed a **yawn detection** algorithm using advanced **image processing** techniques, contributing to **driver drowsiness detection** research. Provided **better results** than the state-of-the-art models.

PROJECTS

Property Rental Management System | Database Systems

Oracle SQL, PL/SQL, Relational Database, Linux

[Link](#)

- Designed and implemented **Oracle database** for seamless interactions among owners, tenants, managers and DBAs.
- Authored intricate **PL/SQL scripts** for adding, deleting, **updating property records** and **querying property status** using unique identifiers.

VaR Modeling and Risk Analysis for Multi-Currency Portfolio | Self Project

Python, Finance, Statistical Analysis and Modeling, Data Visualization

[Link](#)

- Applied financial concepts including **Monte Carlo simulation** to analyze portfolio risk. Quantified risk-return by calculating **expected returns** and **correlation coefficients**.
- Conducted historical analysis and **BootStrap VaR**. Incorporated statistical measures such as **skewness** and **kurtosis**.

Waiting Time Prediction in Queuing Systems using Machine Learning Algorithms | Operations Research

Numpy, Pandas, Deep Learning, Presentation, Communication, Team Work

[Link](#)

- Utilized the **Scikit-learn** framework to develop the **MLPRegressor** model, for accurately **predicting customer waiting times** in bank queues. Proposed solutions to an audience of **82 students**.

Banking Management System | Self Project

C++, OOP, Data Structures, Algorithm Development, Problem-Solving, Finance

[Link](#)

- Implemented **LinkedList** and **Queues**. Users were leveraged to deposit/withdraw cash and open/view their accounts.
- The users in **ATM section** are leveraged with withdraw cash and balance enquiry functionalities. The **administration** could view the bill payment queue.

EXTRACURRICULARS/ACHIEVEMENTS

Undergraduate Teaching Assistant (2024) — Database Systems and Object Oriented Programming:

Responsible for creating **Java** and **SQL** lab sheets with step-by-step solutions for over **300 students**.

INSPIRE Scholarship (2020-2025): Awarded by the **Maharashtra State Board** for being among the **top 1%** performers in Class XII across the state.

Recreational Activities Forum President (Present): Managed events with footfall of **more than 600 students**.

AUGSD Head(2022-2023):Led the operations of course registration and project allotment for **1000 students**.

Head Boy (2017-2018): Managed and hosted school events. Innovated by introducing the **1st school magazine**.