

# Moulik Zinzala

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## Profile

Aspiring Data Scientist with a solid foundation in Python, SQL, and data analysis. Skilled in using libraries and frameworks such as Pandas, NumPy, Scikit-learn, TensorFlow, LangChain, and LangGraph to extract insights, build predictive models, and develop intelligent agents. Passionate about applying data-driven solutions to real-world problems and committed to continuously learning and adopting emerging technologies and techniques.

## PROJECTS

Here are some of my projects There are many of them Please give a visit to my [GitHub](#) for my Projects.

### AI Career Guidance Platform | Prism.ai | [\[Project Link\]](#)

- Built a comprehensive AI-powered career guidance platform helping students discover personalized career paths through intelligent assessment and mentorship.
- Integrated FastAPI backend with Langchain orchestration, Google Gemini AI for personalized analysis, and MongoDB for robust data persistence.
- Engineered modern frontend using React 18, Vite, and Tailwind CSS, featuring interactive assessments, real-time chat interface, and dynamic dashboards.
- Enabled personalized career discovery workflows including skills gap analysis, 24/7 AI mentorship, and real-time job market integration via Indeed API.
- Ensured secure and scalable architecture with Firebase Authentication, Pydantic data validation, and modular API design for seamless user experiences.

### MACHINE LEARNING | NETWORK SECURITY DETECTION | [GITHUB LINK](#)

- **Developed a Phishing Website Detection ML Project:** Built an end-to-end machine learning pipeline for detecting phishing websites, incorporating efficient data ingestion, transformation, validation, and modeling.
- **Pipeline Automation:** Automated artifact creation (e.g., preprocessor.pkl and model.pkl) for seamless predictions, leveraging YAML configuration for flexible and structured pipeline decoding.
- **Database Integration:** Utilized MongoDB for efficient storage, retrieval, and preprocessing of structured data, ensuring streamlined data handling.
- **Model Training and Evaluation:** Trained and optimized multiple models using GridSearchCV, focusing on metrics like precision and recall to achieve optimal performance.
- **Utilities and Validation:** Designed custom utilities for exception handling (exception.py) and dynamic logging (logging.py) while validating data quality and consistency for accurate model predictions.

### COMPUTER VISION| VIRTUAL BOARDCASTER | [GITHUB LINK](#)

- DEVELOPED A PYTHON-BASED VIRTUAL WEBCAM TOOL USING OPENCV AND PYVIRTUALCAM TO BROADCAST VIDEOS OR IMAGES AS LIVE WEBCAM INPUT.

ENABLED USERS TO SEAMLESSLY SWITCH BETWEEN PRERECORDED VIDEOS AND STATIC IMAGES WITH COMMAND-LINE CONTROL AND LOOPING SUPPORT.

DESIGNED FOR VIRTUAL MEETINGS, CONTENT CREATION, AND ONLINE PRESENTATIONS ENHANCING USER INTERACTION AND CREATIVITY..

## Education

**2023-2026**

Bachelor Of Computer Science | UKA Tarsadia University | BV Patel Institute of Computer Science

### Active Member of University's Data Science Society

- Relevant coursework: Machine Learning, Data Analysis, and Statistical Modeling
- SGPA : 8.65

## Skills and Interests

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| <ul style="list-style-type: none"><li>• Python</li><li>• Generative AI</li><li>• Agentic AI</li><li>• MySQL</li><li>• Deep Learning</li><li>• Predictive modeling</li><li>• Excel</li></ul> | <ul style="list-style-type: none"><li>• Power BI</li><li>• Machine Learning</li><li>• Explanatory Data Analysis</li><li>• Statistical Anlaysis</li><li>• Communication</li><li>• Critical thinking and problem-solving</li></ul> |
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## Activities and Interests

Playing Chess, Football | Reading Books | Watching Documentary | Hiking