DHRUV BOBAL

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PROFESSIONAL SUMMARY

Emerging Data Science and Machine Learning Professional, equipped with hands-on experience in developing AI-driven predictive models through academic projects and internships. Seeking to leverage technical expertise in Python, machine learning, and data analysis to contribute innovative solutions in a dynamic technology-driven environment.

EDUCATION

B.E. in Electronics and Communication **2021-2025**
Thapar Institute of Engineering and Technology CGPA 7.94/10.0

TECHNICAL SKILLS

Programming Languages: Python, C++, SQL, R, HTML, CSS
Python FrameWorks: PyTorch, TensorFlow, Scikit-learn, Keras, Django, Flask, FastAPI
Data Analysis: Numpy, Pandas , Seaborn, Matplotlib
Cloud & DevOps: AWS EC2 , Docker, PostgreSQL, Git

PROJECTS & RESEARCH

Medical Image Analysis: Diabetic Retinopathy Prediction System (GitHub) Ongoing

- Designed and implemented a custom Convolutional Neural Network (CNN) architecture to detect Glucoma AMD and Daibetic Retinopathy, achieving 93% accuracy
- Developed a scalable web application using Flask that reduces diagnostic processing time by 40%
- Integrated advanced image processing techniques to create a robust solution that can potentially improve early detection of eye-related medical conditions

AI-Powered Image Calculator (Github)

- Developed a flexible Python based service integrating Google's Gemini AI to solve complex computational imaging challenges
- Created an image processing solution supporting multiple diverse analysis scenarios, demonstrating adaptability in AI-driven problem-solving. Implemented advanced computational techniques to extract meaningful insights from visual content

Loan Status Prediction System (Github)

- Engineered a comprehensive machine learning pipeline that successfully processed and predicted loan statuses with 86% accuracy.
- Created a FastAPI application to demonstrate real-time loan status prediction, showcasing the practical application of machine learning in financial decision-making

PROFESSIONAL EXPERIENCE

Machine Learning Intern, Nezuware July 2024 - August 2024

- Developed advanced predictive models using Stacked LSTM networks for stock price forecasting, improving prediction accuracy by 25% and providing critical insights for financial decision-making
- Implemented a sophisticated fraud detection machine learning model using Random Forest classification, successfully identifying 95% of potential fraud cases.

Finance Secretary, LEAD TIET May 2023 - May 2024

- Managed organizational finances for fiscal year 2024-2025
- Coordinated and successfully executed 5+ organizational events, showcasing leadership and operational efficiency