RUSHI KHFI AGF

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Summary

Passionate about technology with strong foundation in machine learning, natural language processing, and generative AI. Experienced in building real-world projects using Python and Java, with focus on practical problem-solving. Known for strong data visualization and explaining skills, along with quick learning ability and keen interest in turning complex ideas into clear, impactful solutions.

Education

Bachelor of Engineering - Artificial Intelligence and Data Science — Dr. D. Y. Patil Institute of Technology, Pune — Expect

Aggregate CGPA: 7.39 - 10th: 89.20% - 12th: 53.00% - MHT-CET: 92.51

Skills

Programming Languages: Java, Python Data Analytics: Pandas, NumPy, Matplotlib, Seaborn Machine Learning: Regression, Classification, Clustering, Model Evaluation Generative AI: Transformers (BERT), GANs, Diffusion Models Data Science: Statistical Analysis, Feature Engineering, Data Mining Big Tools & IDEs: Visual Studio Code, Eclipse Data: Data Processing, ETL Pipelines, Distributed Com-puting Cloud Platforms: AWS, Render

Frontend & Visualization: Streamlit, Power BI Databases: MySQL

Artificial Intelligence: NLP, AI Optimization, ANN

Advanced Analytics: Predictive Modeling, Time Series Anal-

ysis, A/B Testing DevOps: GitHub

Languages: English, Hindi, Marathi

Pro jects

- 1. Image Super-Resolution using GANs
- Developed image super-resolution model using SRGAN in PyTorch with adversarial training for high-quality outputs
- Trained custom Generator and Discriminator networks with optimized loss functions and advanced image processing
- Achieved superior perceptual quality metrics compared to traditional upsampling methods
- Implemented comprehensive data preprocessing and model evaluation techniques
- 2. Al-Generated Image Detector
- Developed end-to-end deep learning pipeline with PyTorch to distinguish real and AI-generated images
- Engineered three model architectures (CNN, Vision Transformer, Hybrid CNN-ViT) with comprehensive data augmentation
- Achieved high classification accuracy with transfer learning and fine-tuning strategies
- Showcased proficiency in modern deep learning architectures and model development lifecycle
- 3. Sarcasm Classifier using BERT
- Developed sarcasm detection system using pre-trained BERT with Flask-based UI for real-time prediction
- Implemented comprehensive text preprocessing, tokenization pipeline and domain-specific fine-tuning
- Achieved high accuracy in text classification and integrated seamless web interface
- Deployed production-ready model demonstrating end-to-end NLP development skills

Certifications

- Machine Learning with Python IBM (Coursera) - Issued: 2025 - Verify - Data Analytics Certification -Godrej — <u>Verify</u> – Generative AI – IBM (Coursera) — <u>Issued: 2025 — <u>Verify</u> – Fundamentals of AI Agents</u> Using RAG and LangChain - IBM (Coursera) - Issued: 2025 - Verify - Foundations: Data, Data, Everywhere - Google (Coursera) - Issued: 2025 - Verify

Extracurricular Activities

- State-Level Cricket Player: Represented university at inter-state cricket tournaments
- Technical Head Sanskriti Club: Lead the technical team for organizing the annual fest at my college
- Computer Assembly: Assembled my own computer at the age of 15, demonstrating strong technical skills
- Calisthenics Athlete: Actively practice and participate in calisthenics for fitness and strength