Vinay Badnoriya

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SUMMARY

Computer Science undergraduate with a specialization in Artificial Intelligence & Machine Learning, possessing hands-on experience in designing intelligent systems, building machine learning models, and automation real-world tasks, Proficient in Python, SQL, and R with a track record of delivering high-impact, user-friendly solution.

TECHNICAL SKILLS

Programming: Python, R, SQL

Data Analysis & ML: Pandas, NumPy, Scikit-learn, TensorFlow (basic), Seaborn, Matplotlib
Tools & Platforms: Jupyter Notebook, RStudio, VS Code, Google Colab, Power BI, MS Excel
Other: Git, GitHub, Flask (deployment), APIs (basic), Agile basics

PROJECTS

Smart AI Desktop Assistant | GitHub: https://github.com/Vinay1727/Smart-AI-Desktop-Assistant

- Created a smart, voice-controlled assistant using Python and SpeechRecognition to perform over 10 desktop automation tasks, reducing user effort by 70%.
- Designed a secure JSON-based login system and implemented voice-trigger wakeup using OOP principles.
- Integrated command modules for opening apps, sending WhatsApp messages, and playing media files.
- Envisioned mobile control with Flask API to scale accessibility across devices.

Cat & Dog Image Classification (CNN) | GitHub: https://github.com/Vinay1727/cat-dog-classifier

- Designed and trained a CNN using Keras on 25,000+ labeled images; achieved 87% validation accuracy.
- Employed real-time data augmentation and dropout to reduce overfitting by 40%.
- Enabled real-time prediction with a single-image interface for user-friendly interaction.
- Visualized training performance using Matplotlib and evaluated with F1-score and confusion matrix.
  Packaged the model in a reproducible script for future deployment or extension.

Fake News Detection (NLP) | GitHub: https://github.com/Vinay1727/Fake-Viral-News-Detection

- Developed a Flask-deployable NLP application using XGBoost, SVM, and TF-IDF vectorization for fake news classification on the LIAR dataset.
- Preprocessed 12,000+ samples with tokenization, stop word removal, and case normalization.
- Achieved 81% accuracy on test data; optimized results using cross-validation and F1-score analysis.
- Created a user-friendly web interface to allow real-time predictions based on user input.
- Hosted and tested the system locally with 100+ live inputs, showcasing practical implementation.

EDUCATION

B.Tech in Computer Science – Artificial Intelligence & Machine Learning — 2022 – 2026
K.R. Mangalam University, Gurugram | C.G.P.A: 7.05
Senior Secondary (Class 12) & Secondary (Class 10)
New Eklavya High Secondary School, Suwasra | Average: 67%

CERTIFICATIONS

- Python 101 for Data Science – IBM, Statistics Using Python – Samatrix, Data Analysis with Python – IBM, Data Visualization with Python – IBM, Big Data Engineer – IBM

ADDITIONAL INFORMATION

- Automated end-to-end tasks using AI-powered desktop assistants, contributing to real-time system efficiency.
- Regular contributor to open-source projects on GitHub, with focus on deep learning, NLP, and automation tools.
- Participated in hackathons and university-level competitions, demonstrating real-time ML applications.