Shiven Kumar Shandil
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Portfolio: https://shvn22k.github.io/

Summary

I am an aspiring Machine Learning Engineer with a strong foundation in Python programming. Currently pursuing a Bachelor of Technology in Computer Science, specializing in Artificial Intelligence and Machine Learning (AIML). My academic journey is complemented by certifications in machine learning and hands-on experience in data analysis and artificial intelligence technologies. I am dedicated to honing my skills and contributing meaningfully to projects that involve advanced AI solutions.

Education

- **GL Bajaj Institute of Technology and Management, Greater Noida, India**
  - **Degree:** Bachelor of Technology in Computer Science, specializing in AIML
  - **Duration:** October 2023 – Expected October 2027
  - **Performance:**
    - 1st Semester SGPA: 8.91
    - 2nd Semester SGPA: 9
- **Nehru International Public School, Noida, India**
  - **CBSE 12th Grade (April 2023):** 90.8%
  - **CBSE 10th Grade (April 2021):** 96.4%

Skills

- **Programming Languages:** Python
- **Machine Learning and Data Science Expertise:**
  - Classical machine learning algorithms
  - Data visualization and manipulation
  - Statistical modeling
  - Artificial Neural Networks (ANNs) and Convolutional Neural Networks (CNNs)
- **Frameworks and Libraries:**
  - Scikit-learn, PyTorch, NumPy, Pandas, Matplotlib, Seaborn
  - Flask, Streamlit, BeautifulSoup, FastAPI, LangChain, Huggingface Hub
- **Tools:**
  - Jupyter Notebook, Generative AI tools, Anaconda, Git

Certifications

1. **Intermediate Machine Learning (Kaggle):** Advanced concepts in machine learning (June 2024).
2. **Python (Basic) (HackerRank):** Demonstrated proficiency in Python programming (June 2024).
3. **Data Analysis with Python (freeCodeCamp):** Comprehensive understanding of data analysis techniques (May 2024).
4. **Introduction to Generative AI (Google):** Foundation-level knowledge in generative AI (May 2024).
5. **Introduction to Machine Learning (Kaggle):** Core machine learning principles (April 2024).

Projects

1. **AlexNet Research Paper Implementation**
   - Recreated the deep learning architecture from the paper "ImageNet Classification with Deep Convolutional Neural Networks" by Alex Krizhevsky (2012).
   - Analyzed and implemented AlexNet's architecture using PyTorch.
   - Developed the project entirely from scratch, demonstrating an in-depth understanding of deep learning principles.
2. **FinerdAI (Developed at GFG HackFest'24)**
   - A platform aimed at solving financial literacy issues for young adults using AI-driven solutions.
   - **Key Contributions:**
     - Built a Retrieval-Augmented Generation (RAG)-based financial literacy chatbot using Gemini and LangChain.
     - Created a finance AI simulator to mimic real-life financial scenarios.
     - Implemented a "PDF to Podcast" feature to convert finance blogs into podcasts, inspired by NotebookLM.
     - Designed a loan approval prediction model using a Random Forest Classifier.
3. **Regression From Scratch**
   - Built a linear regression model from scratch using only NumPy and mathematics.
   - Illustrated mastery of gradient descent and regression algorithm workflows.
   - Designed the solution to handle both univariate and multivariate datasets.

Achievements

- **GFG HackFest'24 Finalist:** Ranked among the top 30 teams in the competition.
- **HackArcode:** Secured a place in the top 50 teams during this hackathon.

Links

- **Portfolio:** https://shvn22k.github.io/
- **AlexNet Implementation:** GitHub Link
- **FinerdAI Project:** GitHub Link
- **Regression From Scratch:** GitHub Link
