Govind Vishwakarma

Data Scientist

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Technical Skills

- **Languages:** Python**,** SQL, HTML.
- **Core Skills:** Mathematics, Statistics, Machine Learning, Deep learning, NLP, Computer Vision, Generative AI, Time-Series Analysis, Forecasting, LLMs (GPT & BERT, etc.), Prompt Engineering, Web scrapping, Data Analysis.
- **Framework & Libraries:** Tensorflow, PyTorch, Keras, Scikit-Learn, Flask, Streamlit, FastAPI, RESTful APIs, Beautiful Soup.
- **Tools & Technologies:** Jupyter Notebook & Google Colab, Power BI, Git, Excel, Pandas, Numpy, Seaborn, Matplotlib.
- **Platform:** AWS, Google Cloud Platform, Azure, Docker, MongoDB, MySQL, Visual Studio Code.
- **Predictive Modelling & Deployment:** MLOps, NLPops, DLops, LLMops, MLFlow, CI/CD, GitHUB Action, CircleCI, DVC.
- **Soft Skills:** Analytical Thinking, Problem Solving, Effective Communication, Critical Thinking, Researching Skills.

Personal Projects

1. **Chicken Disease Classifier | Deep Learning, TensorFlow, AWS, GitHub Actions**
   An Artificial Neural Network model designed to detect chicken diseases through images for early intervention.
   - Developed a modular deep learning pipeline in VS Code, leveraging ANNs for high-accuracy disease detection.
   - Deployed the model on AWS with CI/CD integration using GitHub Actions, reducing deployment time by 40%**.**
   - Achieved **95% classification accuracy**, enabling faster and more reliable disease diagnosis in poultry farming.
2. **Hate Speech Detection | NLP, RNN, LSTM, Circle CI, GCP**
   A Natural Language Processing model uses a social media dataset to detect hateful speech.
   - Built modular NLP pipelines in VS code, leveraging RNN and LSTM for high-accuracy speech detection.
   - Deployed the model on AWS using Circle CI integration, reducing deployment time by 50%.
   - Achieved **93% classification accuracy,** enabling quick and precise detection for different social media platforms.
3. **Text Summarizer | Python, NLP, Hugging face Transformer, GitHub Actions, AWS**
   An NLP-based application for summarizing large text documents efficiently.
   - Utilized advanced NLP techniques and transformer models for accurate text summarization.
   - Deployed on AWS with a robust CI/CD pipeline, improving version control and reliability.
   - Reduced manual content review time by 60% for end-users.
4. **Book Recommender System | Clustering Algorithm, Python, Streamlit, Pickle**
   A personalized book recommendation app using unsupervised machine learning & collaborative filtering techniques.
   - Developed with Streamlit for a user-friendly interface and deployed using pickle files for efficient model loading.
   - Improved user engagement by providing accurate recommendations based on user preferences.
5. **Phishing Website Detection | Classification Algorithm, Python, AWS, Flask**
   A Supervised-Classification Machine Learning model to detect phishing websites using a modular coding approach.
   - Leveraged classification algorithms and deployed the model using Flask for real-time phishing detection.
   - Achieved an accuracy of 91% in identifying malicious websites, enhancing online security for users.

Work Experience

- **Business Analyst at Turing (September, 2024- Present):**
  Contributing to a cutting-edge Multimodal RLHF project by crafting strategic prompts for specific images and evaluating model performance across multiple criteria. Leveraged critical thinking, communication, and problem-solving skills to ensure comprehensive assessment and alignment of model with project objectives.
- **Internships: (Data Scientist at Physics Wallah for 2 months & Data Analytics at UMPL for 1 month): (April-August, 2024)**
  Built an end-to-end solution for Credit Card Default Prediction and performed data analysis on e-commerce data.
- **Higher Mathematics Mentor (2019-2023):** Guided high school students in mastering advanced mathematics concepts for various competitive exams.

Education & Certification

- **Full Stack Data Science** (Physics Wallah Skills, August 2023-Jan 2025)
- **Fundamentals of Generative AI** (Ineuron Intelligence, June 2024- November 2024)
- **Bachelors of Pharmacy** (Rajiv Gandhi Technical University, Bhopal, 2015-2019)
- **Diploma in Computer Applications** (Makhanlal National University of Journalism, 2014-2016)

Achievement & Interest

- **Golden Badge** in Python and SQL with 5 stars, Silver badge in Problem-Solving with 3 stars over Hackerrank, **1st Rank** in ML live project assessment, Love to Play Chess, Coding, Solving Puzzles, Exploring new Technologies & Upskilling.