

# GOVIND VISHWAKARMA

## Data Scientist

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### SUMMARY

Data Science enthusiast with expertise in Machine Learning, Deep Learning, NLP, Computer Vision, and MLOps. Key achievements include achieving a Golden Badge in Python and SQL with 5 stars on Hackerrank and securing 1st Rank in ML live project assessment. Skilled in data analysis, predictive modeling, and AI deployment using AWS, GCP, and CI/CD pipelines. Passionate about solving complex problems through research and critical thinking.

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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.
  - **Framework & Libraries:** Tensorflow, PyTorch, Keras, Scikit-Learn, Flask, FastAPI, RESTful, Beautiful Soup.
  - **Tools & Technologies:** Jupyter Notebook, Power BI, Git, Excel, Pandas, Numpy, Seaborn, Matplotlib.
  - **Platforms:** AWS, Google Cloud Platform, Azure, Docker, MongoDB, MySQL, Visual Studio Code.
  - **Predictive Modelling & Deployment:** MLOps, NLPops, DLops, LLMops, MLFlow, CI/CD, GitHub Action, DVC.
  - **Soft Skills:** Analytical & Critical Thinking, Problem Solving, Effective Communication, Researching Skills.
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### PROJECTS: (PERSONAL)

#### 1.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.

#### 2.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.

#### 3.Book Recommender System | Clustering Algorithm, Python, Streamlit, Pickle

A personalized book recommendation app using unsupervised machine learning & collaborative filtering techniques.

- Developed with Colab 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.

### OPEN-SOURCE-CONTRIBUTION:

#### 4. Credit Card Default Prediction | Supervised-Classification, Python, Scikit-Learn, AWS, CI/CD

Random Forest-based model as an open-source contribution to a GitHub user, predicted and deployed efficiently.

- Developed a Random Forest model for predicting. Optimized with GridSearchCV, achieving 90%+ accuracy.
  - Integrated CI/CD on AWS, improving deployment efficiency, and enabling automated & scalable risk assessment.
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### WORK EXPERIENCE

- **Business Analyst (Turing, Sept 2024-Present):** Developing strategic prompts for a multimodal RLHF project to optimize model performance across multiple criteria. Critical thinking, communication, and problem-solving were utilized to ensure accurate evaluation and alignment with project goals.
  - **Python Developer (Freelancer, Outlier AI, Nov 2024-Present):** Developing client-required interfaces using Flask, RESTful APIs, and backend integrations. Optimized performance, ensured seamless data flow, and implemented scalable solutions to meet project requirements.
  - **Data Scientist (Internship, Physics Wallah, June 2024-August 2024):** Built an end-to-end Credit Card Default Prediction model, leveraging machine learning techniques for high-accuracy predictions. Conducted data preprocessing, feature engineering, model training, and evaluation to optimize performance.
  - **Mathematics Teacher (JEE & CBSE Boards, June 2019-April 2023):** Guided high school students in mastering advanced mathematics concepts for various competitive exams.
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### EDUCATION

- **Full Stack Data Science** (Physics Wallah Skills, Aug 2023-Jan 2025)
  - Bachelors of Pharmacy (**70%, Rajiv Gandhi Technical University**, Bhopal, June 2015-April 2020)
  - Diploma in Computer Applications, i.e. **DCA** (Makhanlal National University of Journalism, 2014-2015)
  - 12 Boards with **Mathematics (76%, Model HS School**, Bhopal, 2012-2014)
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### CERTIFICATIONS AND ACHIEVEMENTS

- **Fundamentals of Generative AI** (Ineuron Intelligence, June 2024-November 2024)
- **Golden Badge in Python and SQL with 5 Stars, Silver Badge in Problem-Solving with 4 stars over Hackerrank, 1st Rank** in ML live project assessment, Love to Play Chess, Coding, Solving Puzzles, Exploring new Technologies & Upskilling.