



RESHMA R B

Data Scientist

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CAREER OVERVIEW

Detail-oriented Data Scientist with expertise in designing, developing, and implementing machine learning models to solve complex business problems. Proficient in data preprocessing, feature engineering, and model evaluation to support data-driven decision-making. Passionate about leveraging advanced AI/ML techniques, including transfer learning, to enhance model performance and develop scalable, impactful solutions.

EXPERIENCE

Data Valley.ai

Data Science / ML Project Associate

2024-Present

Remote-Hyderabad, India

- Collaborating on the design and implementation of machine learning models using Python and TensorFlow.
- Conducting data preprocessing, cleaning, and feature engineering for diverse datasets.

CuMinds Innovations

Data Science Intern

Sep 2024-Jan 2025

Remote-Coimbatore, Tamil Nadu, India

- Working on machine learning projects and data preparation for AI models.
- Developing content for data science courses and training materials.

ICT Academy of Kerala

Machine Learning Intern

2023-2023

On-site-Thiruvananthapuram, Kerala, India

- Gained hands-on experience in machine learning and deep learning projects.
- Assisted in model training and evaluation using Scikit-Learn and PyTorch.

PROJECTS

1. DermaCare Chatbot Doctor

[Live Link](#) | [GitHub](#)

- Model Integration: Used Groq API with pre-trained LLMs for accurate, responsive healthcare advice.
- Frontend: Developed an interactive UI with Gradio for seamless user interactions.
- Conversational AI: Leveraged Groq's LLMs with tailored prompts for empathetic, human-like responses.
- Audio Output: Integrated gTTS for converting text responses to speech, improving user experience.
- Deployment: Hosted on Hugging Face Spaces for broad accessibility.

2. ClearSpeak AI - Verbal Communication Skills Trainer

[Live Link](#) | [GitHub](#)

- Model Integration: Integrated Groq API for AI-based feedback on verbal communication skills, focusing on tone and clarity.
- Frontend: Developed using Flask with interactive interfaces for text and voice-based training modes.
- Speech Processing: Utilized gTTS and VoiceRSS API for converting AI-generated responses to speech, enhancing interaction.
- Training Modules: Includes Impromptu Speaking, Storytelling, and Conflict Resolution, providing AI-driven feedback.
- Assessments: Users can submit text or voice-based presentations for AI evaluation and feedback.

- Progress Tracking: User responses and feedback are tracked in a SQLite database for ongoing improvement.

MINI PROJECTS

1. Flipkart Review Sentiment Analysis

[GitHub](#)

- Performed text preprocessing using NLTK, re, and WordCloud for visualizations.
- Data Cleaning: Cleaned text by removing stopwords, special characters, and applied stemming.
- Applied Naïve Bayes classification for sentiment analysis, categorizing reviews as positive, negative, or neutral.
- Final Result: Most reviews were neutral (1283), with positive (924) and negative (97) reviews being fewer.
- Suggested Future Findings: Future work could explore Deep Learning models like LSTM and VADER for more accurate sentiment detection.

PUBLICATIONS

Tracking the Pulse of GeoHub LA: Insights from Web Traffic Data

[Link to Publication](#) | [GitHub](#)

Old Students Forum (OSF),

Department of Statistics, Cochin University of Science and Technology – April 29, 2023

- Performed time series analysis on GeoHub LA web traffic data using Python, focusing on data extraction, preprocessing, and cleaning.
- Applied techniques such as decomposition, forecasting, and anomaly detection to identify key user behavior patterns and trends.
- Analyzed the impact of time of day, day of the week, and seasonal trends on web traffic, providing insights to optimize website performance and resource allocation.

TECHNICAL SKILLS

- Languages: Python, R, R Studio, SAS
- Data Visualization & Databases: Tableau, Power BI, SQL, MySQL
- Applications: Data Science, Machine Learning, Deep Learning, NLP, AI, LLM, Generative AI, Data Analysis, Statistics, Data Visualization
- Frameworks & Libraries: NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn, SpaCy, NLTK, PyTorch, TensorFlow, Keras, Django, Gradio, Hugging Face
- Familiar with: Data Structures & Algorithms, Statistics & Probability, Git, GitHub

EDUCATION

- Data Science/ML Bootcamp
Brototype, Trivandrum [Certificate](#)
2024 - 2025
- MSc-Master of Science in Applied Statistics and Data Analytics
University of Kerala,Kariavattom Campus
Grade: 8.28
2021 - 2023
- BSc-Bachelor of Science in Statistics
Christian College, Kattakada,Trivandrum
Grade: 7.89
2017 - 2020

CERTIFICATIONS

- Machine Learning A-Z: AI with Python & R
- Data Science Orientation:[Link](#)
- Tools for Data Science:[Link](#)