VISHAL GORULE

Data Science and Artificial Intelligence Intern

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EXPERIENCE

Data Science and Artificial Intelligence Intern
RacksonIT Developers Pvt Ltd 01/2024 - 05/2024
Pune, Maharashtra, India

- Developed a web application using Flask to detect faults in solar panels, enhancing maintenance protocols
- Implemented a Convolutional Neural Network (CNN) to analyze solar panel images and detect faults with a high accuracy rate
- Integrated real-time data visualized using matplotlib and seaborn to display panel performance and fault detection results

Machine Learning Trainee
Qsective Solutions 08/2022 - 08/2022 Ichalkaranji, Maharashtra, India

- Learned various machine learning techniques and applied them to tasks such as regression and clustering
- Developed and implemented machine learning models for predictive analysis and data-driven decision-making

Machine Learning Trainee
Qsective Solutions 04/2022 - 04/2022 Ichalkaranji, Maharashtra, India

- Gained hands-on experience in machine learning, focusing on regression and clustering tasks
- Conducted data preprocessing and feature engineering to enhance model performance

Python Trainee
Qsective Solutions 08/2021 - 08/2021 Ichalkaranji, Maharashtra, India

- Acquired proficiency in Python programming and completed relevant tasks
- Developed scripts for data manipulation, analysis, and automation

PROJECTS

Q&A System using Gemini-Pro API Large Language Model

- Developed a QA system using Gemini-Pro API for text and image processing.
- Implemented NLP techniques and integrated AI models to enhance system accuracy.

Stock Price Prediction using Machine Learning

- Created a model using Stacked LSTM to predict stock prices
- Used Tiingo API for data collection
- Successfully predicted the next 30 days of closing prices

Chicken Disease Detection using Deep Learning

- Developed a Convolutional Neural Network (CNN) model to detect diseases in chickens.
- Achieved an accuracy of 94.95% on the test dataset.
- Improved model performance by implementing image preprocessing techniques such as normalization and resizing.
- Applied data augmentation methods including rotation, flipping, and zooming to increase the diversity of the training data.
- Utilized transfer learning with a pre-trained model to enhance feature extraction and model accuracy.
- Gained hands-on experience with convolutional neural networks, image preprocessing, and data augmentation.
- Deployed the model on Render for real-time disease detection.

SUMMARY

Enthusiastic Data Science and Artificial Intelligence Intern with hands-on experience developing innovative solutions in fault detection for solar panels. Proficient in Python,
Machine Learning, and Deep Learning techniques. Skilled in collaborating with cross-functional teams to design and implement effective AI systems. Eager to contribute to
cutting-edge projects that align with advancing technological solutions in AI/ML engineering.

SKILLS

Programming: Python, Java, C
Database: MySQL
Data Visualization: Matplotlib, Seaborn
Machine Learning: Scikit-learn, SciPy
Deep Learning: TensorFlow, Keras
NLP Libraries/Frameworks: NLTK, Spacy, Hugging face, Transformers
NLP pre-trained models: Bert, GPT
Computer Vision: YOLO, ResNet50, VGG16, CNN
Gen-AI: OpenAI, Gemini Pro, LLama, Hugging Face
Audio Processing: Text-to-Speech, Speech-to-Text
Cloud Platforms: AWS, Azure
Version Control: Git, GitHub
MLops: DVC

EDUCATION

B. Tech in Artificial Intelligence and Data Science
Sharad Institute of Technology, Yadrav
CGPA: 7.06
2020 - 2024

PUBLICATIONS

The Hospital Management System
INTERNATIONAL RESEARCH JOURNAL OF MODERNIZATION IN ENGINEERING TECHNOLOGY AND SCIENCE (IRJMETS)
12/2024 URL: https://www.doi.org/10.56726/IRJMETS47223

CERTIFICATIONS

- Data Science with Python
  Simplilearn
- Neural Networks and Deep Learning.
  Coursera
- Natural Language Processing with Classification and Vector Spaces.
  Coursera

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