Nagaraj Shrikrishna Hegde

Data Engineer

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📍 Bengaluru

WORK EXPERIENCE

Greaves Electric Mobility   03/2023 - Present

Data Engineer

- Successfully built back-end APIs for mobile application, sales force application and real-time dashboard.
- Designed and implemented end-to-end data pipeline from vehicle TCU to cloud infrastructure (GCP) for seamless data transmission and deployment
- Data Migration among 3 cloud vendors to in-house GCP.
- Development and implementation of web dashboard for real-time fleet analysis.
- Management of DevOps.

Software Intern   03/2023 - 07/2023

- Created a data monitoring tool using Next.js, enabling real-time tracking and visualization of data.
- Implemented features for data aggregation, analysis and reporting.
- Managed data processing, ingest and storage using Google Cloud.
- Worked on Predictive Analysis of faults in EVs.

Vyoma Linguistic Labs   08/2022 - 12/2022

Software Product Intern

- Developed custom Alexa Skills using Amazon Alexa Skills Kit (ASK) and AWS Lambda, integrating external APIs for personalized, dynamic voice responses and enhanced user interactions.
- Implemented voice recognition and natural language processing (NLP) to improve accuracy and responsiveness of Alexa-powered devices.

PROJECTS

Skin Cancer Classification Using Machine Learning

- Developed an automated classification system based on image processing techniques to classify skin cancer (Melanoma and nonmelanoma) using skin lesion images.
- Performed a detailed comparative study of the performance of ML and DL algorithms for the said task.
- Handled class imbalance using advanced data augmentation strategies and trained ensemble models with Cosine Decay learning rate and Adam optimizer, achieving robust results across folds.

De-Identification of Medical Records Using Machine Learning

- Provide patient privacy by de-identifying PHI (Personal Health Information) from medical records.
- Identifying and Encrypting the fields identified as personal details.
- Replacing the identified text with the encrypted text.

Prakruti- Visualization and Analysis Tool for Weather Informatics

- Conversion of weather data file (.nc file) into human readable image format.
- Easy Conversion of weather data (noaa gov) for specified date across the selected area across the globe.
- Conversion of weather data to image format using Grads Scripts.
- Big data conversion to image (jpeg format) within a few seconds.

EDUCATION

B.E in Information Science

R.V College of Engineering
(2020 - 2023)

Diploma in Computer Science and Engineering

R.N.S Rural Polytechnic, Murdeshwar
(2017 - 2020)

SKILLS

- **Programming Languages**
  C, Java, Python, SQL
- **Web Programming**
  HTML, CSS, NodeJS, ReactJS, NextJS
- **Tools/Software**
  Git, VS Code, Postman, MySQL Commandline Client, Workbench, Shelfscript, Android Studio
- **Cloud/DevOps**
  GCP, AWS
- **Operating Systems**
  Linux, Windows

ACHIEVEMENTS AND PUBLICATIONS

- **Secured 2nd rank in NSD Hackathon 2020**

Secured 2nd rank in a 24 hours Hackathon arranged on National Science Day by Canara Engineering College-Benjanapadavu. A drone was programmed to implement it as an electronic bomb diffuser.

- **Skin Cancer Classification**
- **Predictive Analysis of Faults in EVs**