NITHIN KUMAR REDDY

MERN Developer • SIH'22 Finalist • Final year at IIITM Gwalior.

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EXPERIENCE

Backend Development and Machine Learning Intern

Mapout

September 2021 - Present

- Developed web scrapers for obtaining job data from Google, Linkedin and Naukri websites. Packaged some pre-existing python scripts to node APIs.
- Improved the working resume parser to make it more accurate and developed APIs for analising text data.

Node.js and Express.js Development Intern

Bookmatic Private Limited

June 2021 - September 2021

- Converted the entire existing backend from Java to NodeJs and ExpressJs.
- The convertion process included writing APIs in Node and Express and extracting data from the database (MongoDB).

Research Intern

IIITM, Gwalior

May 2021 - August 2021

- Worked on Fuzzy Neural Networks application on Speaker Identification. Under the supervision of Dr.Jeevraj, Associate Proffesor, IIITM Gwalior.
- The Project mainly focus on introducing Fuzzy Neural Networks in the process of Speaker Identification to decrease the training time and to provide the ability to add new data even after the completion of training process effectively.

PROJECTS

MailerPro - A Bulk Mailing Application

- A Web Application for sending emails in large scale and managing the subscribers efficiently. The application is designed to send emails to subscribers of specific groups and view statistics about their activity over the email.
- Designed the frontend application using **ReactJs** and **Material UI**, backend server using **NodeJs** and integrated it with **Amazon SES** and **Amazon SNS** for executing the campaigns.
- Implemented the process of importing information about contacts from CSV files and displaying various statistics of the subscribers using different plots. Maintained the database using **MongoDB** along with scheduling the campaigns using CRON jobs.

Fuzzy Min-Max Neural Network For Text-Independent Speaker Identification

- Used Fuzzy Min-Max Neural Networks(FMMNN) for text independent Speaker Identification.
- The model is a **Three layer Feed Forward Network** that grows adaptively to meet the demands of the problem. By using this model the process of re-training can be omitted and new classes can be added more effciently when compared with a general neural network.
- Acheived the State-of-Art result with the accuracy of **96.84%** and a training time of 7.06s when trained with 48 speakers (training sample).

FarmEasy - We Innovate your cultivation

- A Machine Learning-based Web Application which can detect the diseases associated with the crop and also recommend the best crop that can be cultivated by analyzing the geographical factors in that region obtained from **weatherAPI**.
- Designed the frontend application using **React.js** and **Material UI**. Performed transfer Learning on **DenseNet201** CNN Model trained using an 80000 image dataset consisting of various diseases associated with plants and crops and achieved an accuracy of **90%**.
- Implemented REST APIs and integrated the Machine Learning Models on Flask using **Keras** and **Pickle**.

EDUCATION

B.Tech in Computer Science and Engineering

Indian Institute of Information Technology, Gwalior

July 2019 – May 2023

Grade Point - 7.78

12th standard

FIITJEE College

June 2017 – March 2019

Hyderabad,India

STRENGTHS

- Development
  - React.js, Node.js, Express.js, Bootstrap, Flutter
- Programming Languages
  - C, C++, Python, JavaScript, Dart
- Frameworks
  - Scikit, NLTK, SpaCy, Keras, TensorFlow
- Platforms
  - Linux, Web, Mobile, Windows
- Other technologies
  - Git, REST API, Socket.io

ACHIEVEMENTS

- Got selected for Finals of **Smart India Hackathon (**$SIH'22$**)**, Government of India's prestigious National level hackathon, to be held in the first week of August, 2022.
- Secured **first Position** at Hackfest, National Level Hackathon organised by ATME College of Engineering under CSI student Branch, among 40+ teams all over India.
- Secured a place in top 3 from both Second Year and Third Year for AASF winter Project in Machine Learning Category.

TRAINING

Machine Learning By Stanford University

Coursera

May 2021

Server-side Development with NodeJS, Express and MongoDB

Coursera

April 2021 – May 2021