Karnati Sai Prashanth
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Karnati-Sai-Prashanth KS-Prashanth

Objective

A soon to be Computer Science Engineer specializing in Artificial Intelligence with proficiency in programming along with good interpersonal and problem-solving skills coupled with ability to handle tasks in teams and individually seeking a role to contribute to the domain and grow with the organization.
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Education

- **B. TECH IN COMPUTER SCIENCE AND ENGINEERING (ARTIFICIAL INTELLIGENCE)**   **2020 - 2024**

  School of AI and Computing, Amrita Vishwa Vidyapeetham, Coimbatore
  (current) CGPA: 8.08/10

- **HIGHER SECONDARY EDUCATION (11TH – 12TH)**   **2018 - 2020**

  Subjects: Mathematics, Physics, Chemistry, Sanskrit, English
  FIITJEE
  Marks: 926/1000

- **SSLC (10th)**   **2018**

  The Presidential School (CBSE), Visakhapatnam

  Marks: 430/500

Technical Skills

- **Languages:** Python (intermediate), C programming (intermediate)
- **Web Development:** HTML, CSS, JavaScript
- **Tools/Packages:** NumPy, Pandas, Matplotlib, TensorFlow, SK-learn.
- **OS:** Ubuntu, Windows, Mac OS
- **Techniques**: Data Visualization, Data Analysis, Data Structures
- **Database** : SQL

Certifications

- **Python Data Structures**   **University Of Michigan | Coursera**   20th Jan 2021

  Link : **https://www.coursera.org/account/accomplishments/certificate/7W8PAVJXSCMT**

- **Microsoft Certified : Azure Fundamentals**   **Microsoft**   **7ᵗʰ may 2023**

  Link: [Microsoft Certification || LinkedIn](#)

- **Data Science Virtual Experience Program**   **British Airways | Forage**   **5ᵗʰ may 2023**

  Link : [British Airways || Forage](#)

Technical Interests

- Machine Learning
- Data Visu
- Data Analysis

Projects

- **Voice and Message Based Home Automation**   **July 16ᵗʰ 2022 – July 23ʳᵈ 2022**

  - Built a voice-based home automation system using Raspberry Pi and sensors, with speech recognition and a Telegram bot for sending important messages to the user. Utilized various APIs in Python for real-time information, such as Google Cloud Speech API for speech-to-text conversion, weather API for temperature updates, and other libraries for obtaining present time and day.
  - Implemented speech recognition on Raspberry Pi by connecting a microphone directly to the device. Aimed to create an Alexa-like Raspberry Pi-based voice assistant capable of listening, responding, and controlling certain functions.

  Link : https://github.com/KS-prashanth/My-own-voice-and-message-based-home-Automation

- **YouTube Hate Speech Detection on Code Mixed Telugu-English (TELGLISH) Text and Telugu Text**   **November 18ᵗʰ 2022 – Ongoing**

  - Collected our Own dataset of Telugu and Telglish mixed characters from social media platforms like YouTube.
  - Deep Learning models were used to do a comparative analysis of hate speech detection.
  - This project is converted into a Research Paper , the source code or Data set used is not posted online.

- **Predicting International Carbon Dioxide and Greenhouse Gas Emission Levels with Dynamic Mode Decomposition October**   **October 21ˢᵗ 2022 – January 7ᵗʰ 2023**

- Used Matrix Factorization and Collaborative Filtering to predict ratings for unrated movies based on previously rated movies. The sparse matrix was filled with zeros to handle missing ratings, and the approach considered factors such as genre and favorite actors/actresses for better accuracy.

Link : https://github.com/KS-prashanth/DMD-project

Other Projects (Sustainability, Social Responsibility)

- **Live-in-labs** (Rampura Village in Haryana)   **Feb 2023 – Dec 2023**
   (A Sustainability development initiate by Mata AmritAnandamayi Math and United Nations)

- **Current Status:** Data has been collected through personal interviews and analysis of village development plans, with a focus on social strata, income sources, wages, and occupations. This information is currently being analyzed to construct a proposed developmental project.
- **Link:** LIVE-IN-LABS || Sustainable-Development-Project || LinkedIN

Publications

- Bridging Language Barriers: Exploring Hindi-to-English Speech-to-Speech Translation for Multilingual Communication   **Accepted: 01-08-2023, CIS 2023**
- Bridging the Language Gap: Empowering Hate Speech Detection with Pervasive Attention on Dravidian Languages   **Under Review**
- Loan Distribution System Using Supervised Machine Learning.   **Accepted: 07-07-2023, IJARESM**

The above Publications are submitted to the Conference and they are under Review.

Work Experience

 Machine Learning Engineer Intern   **Centennial Ridges Corporation**   **Started On: 10-July-2023**

I have been working as a Machine Learning Inter in the Centennial Ridges Corporation as a part of my Summer Internship. I will be completing my internship by the end of August.

Extra-Curricular Activities

- **Event Management (Central Co-Ordinator)**   **2020-2023**
   As the Central Coordinator at my university, I successfully planned and executed major events such as Gokulastami and Amrataostavam.

- **Class Representative (CR)**   **2020-2023**

Demonstrating strong leadership skills, I was elected as the Class Representative (CR) for my batch from 2020-2024. As the CR, I represented my peers, effectively communicated with faculty and staff, and facilitated successful events and activities.

- **Float Co-Ordinator**   **November 2022**

    As the Float Coordinator , I led the design and construction of a float for Gokulastami, a Hindu festival. Through effective coordination and leadership, our team was awarded 2nd prize for our outstanding float.

Language Proficiency

English (professional), **Hindi** (conversational), **Tamil** (Beginner), **Telugu** (Native)

Personal Details

Date of Birth: 16th March 2002
Hobbies / Interests: Surfing web
Contact Address: 50-116-6-1/A , Seethammadhara North Extension, Behind Hill View Park, Visakhapatnam, India - 530013

Place: Visakhapatnam   Signature:
Prashanth

Date: 22-04-2023   (Name: Karnati Sai Prashanth)