

Nipun B Nair

Contact

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About Me

Educational Background

BTech in Computer Science and Artificial Intelligence

Amrita Vishwa Vidyapeetham, Bangalore

Oct 2020 - June 2024

- CGPA: 8.5/10

Projects

Palm leaf line segmentation using Deep Learning in Malayalam language. - Digitization of palm leaf manuscripts is crucial for preservation, and deep learning techniques like CNNs are effective for segmentation. Process involves pre-processing, line segmentation, and post-processing, with advanced computer vision aiding accurate and efficient results.

Dementia data creation and analysis in Malayalam language - The project aimed to collect voice samples of various dementia patients and create a dataset in Malayalam. The voice samples would then be analyzed using AI in speech processing and Natural Language Processing. A classification model was built to differentiate between dementia patients and non-dementia personnel using text and speech data.

Robot Navigation and obstacle avoidance - Utilized Reinforcement Learning, ROS, and Python to develop a policy for a turtle-bot to navigate in the environment without collision with obstacle.

Work Experience

Intern | Stellantis

(01/2024 – current)

- Developed an automated API testing tool for macchina Application frame work for ensuring their reliability and functionality.
- This tool would comprehensively test and verify all the APIs in real environments while automating testing processes and support scalability and customization.

Intern | OdiaGenAI

(07/2023-10/2023)

- Trained LLAMA2 model on a domain specific dataset in Odia language
- Assisted in the humanevaluation of models trained in Hindi datasets.
- Created datasets and instruction sets in Hindi language.

Research Intern | University of California at Santa Cruz

(06/2022 - 08/2022)

- Completed a project under the guidance of Prof. Grace Weishi Steadmon and Prof. Isha Aggarwal.
- Developed an open data source for the Global Capital Allocation Project by analyzing global bank data using Python and Selenium, extracting stock data from EDGAR, and mentored Ph.D. students in Python debugging.

Skills

Technical Skills

Python, JAVA, C++ SQL, HTML,

CSS, JavaScript, AWS

Non-Technical Skills

Communication, Teamwork, Problem-solving, Leadership, Public speaking

Certifications/Achievements

- Machine Learning for Soil and Crop Management IIT Kharagpur NPTEL Jan-Apr2022
- Take Charge of Your Time by Ankur Warikoo India's leading time management course
- Google Cloud Skills Boost (EARNED June 30, 2023)
- AWS – Certification Badge
- Skill Nation Certification for Business Intelligence using Power BI
- Apna College Certification for DSA for JAVA
- ICON of AMRITA Prestigious, annual award amongst freshmen October 2020

Publications

Google Scholar Profile