

Vinayak Renu Nair

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I am pursuing Masters in Computer Science with Scholarship at Georgia State University.

Projects

Readability Formulas and Text Coherence

- Developed Machine Learning Models to detect the level of text difficulty using NLP techniques.
- Use different word-embeddings and different machine learning algorithms (*Random Forest, Logistic Regression, Naïve Bayes, SVM*) FastText and BERT models to produce a readability assessment model.
- Evaluate whether the model is improved by including linguistic features of cohesion.

Detecting Depression Using Deep Learning And Neural Networks

- A comparison study to detect depression from the transcripts of clinical interviews between the patients and an animated virtual interviewer.
- It is classified based on the level of depression using natural language processing and deep learning techniques
- The dataset used was a private dataset recieved from Stanford University.

Recommender System

- To build a movie recommendation system with collaborative filtering and deep learning techniques which outputs related content as recommendations out of relevant and irrelevant collection of items to users.

Ticket Booking and Travel Enquiry System

- Created an app which takes in either users voice or text as input and give appropriate information regarding their travel queries.
- It was developed using Android studio and SQLite for the database management.

Technical Skills

Languages	Python, JavaScript, SQL , R
Frameworks & Libraries	Scikit-learn, Tensorflow, ReactJS, NLTK, Pandas
Tools	Git, Docker, AWS, MongoDB, Jira

Work Experience

EXFO

Summer Internship

April 2019 - July 2019

- Performed exploratory data analysis and implemented various machine learning models on cellular data.
- Developed course material regarding Data Models for incoming interns as per directions from Regional Manager.
- Worked with team from Canada remotely doing research on products relating to Telecom Industry.

Tejas Networks

Internship

May 2018 - July 2018

- Undertook a project titled Disk Programming Using Raspberry Pi under the guidance of the Director of R&D.
- Leveraged PERL for actuating Raspberry PI and developed a front end interface, using HTML CSS, to showcase the working model.
- Awarded with certificate of merit from Director R&D for research and team work.

Teaching Assistant

Graduate Teaching Assistant, Georgia State University

Jan 2021 - Present

- Used **GitHub** and **ZenHub** to help and assist students on their projects for the **Software Engineering** course.
- Worked as **Lab Instructor** for **System Level Programming Course**.
- Assisted students for projects and coursework.

Education

M.S. - Computer Science

Jan 2021 - May 2022

Georgia State University, Atlanta

Teaching Assistant

Advanced Software Engineering, Machine Learning, Natural Language Processing, Web Programming

B.E. - Computer Science

Aug 2016 - May 2020

Amrita School of Engineering, India

Data Structures and Algorithms, Database Systems, Object Oriented Programming, Cloud Computing