

PAVITHRA KAREDDY

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EDUCATION

Northeastern University

Boston, MA

Master of Science in Information Systems

May 2024

- Relevant Courses: Application Engineering and Development, Data Science Engineering Methods and Tools

CVR College of Engineering

Hyderabad, India

Bachelor of Technology

June 2022

GPA: 3.8/4.0

- Related courses: Object Oriented Programming, Data Structures, Problem Solving Through C, and Computer Networks

TECHNICAL SKILLS

Languages: Java, C, Python, Verilog HDL

Databases: MySQL, MongoDB, SQLite, DB4O

Web technologies: JavaScript, HTML5, CSS3, Node.js, Express, React.js, Rest API

Libraries& Frameworks: NumPy, Keras, Pandas, OpenCV, Scikit-learn, Matplotlib, Spring Boot

ACADEMIC PROJECTS

STUDENT MANAGEMENT SYSTEM

October 2022 - December 2022

- Designed and developed a Student Management System app, a one-stop solution for universities to manage all significant student activities
- App includes modules to manage student enrollment, course registrations, grades, library, and transport facilities. Followed all OOPs concepts to design and build these modules
- Worked on Java for the backend, DB4O database, and UI of the application is built using Java Swing

IMDB MOVIE REVIEWS TEXT ANALYSIS

October 2022 - December 2022

- Built Identification and Categorizing models using Python by analyzing text in IMDb reviews data set
- Implemented Latent Dirichlet Allocation algorithm by building bigrams and trigrams followed by lemmatization to identify a movie genre based on reviews provided and determine cast of the movie
- Constructed Text Rank algorithm with Bert embeddings followed by similarity plots to classify the best and worst movies in the dataset based on the reviews
- Compiled Bayesian simulation to calculate the uncertainty of the model

INTERACTIVE INFORMATION SYSTEM

January 2022 - May 2022

- Built gender and age detection system from live camera feeds using Raspberry Pi 4 Model B
- Programmed with OpenCV2, Keras, NumPy, and Scikit-learn in Python for backend development
- Trained deep learning model using UTKface data set and improved accuracy of the system to 70% using Convolution Neural Networks. Also, built a web page that gives information about the college

VOLUNTEER EXPERIENCE

IEEE WOMEN IN ENGINEERING

Hyderabad, India

Membership Development Officer

July 2020 - May 2022

- Organized project expo with 400 participants from various colleges and over 100 projects on display
- Expanded IEEE WIE student members by 300% with awareness programs that were conducted online