DHIVYA S

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EDUCATION

Bachelor of Computer Science Engineering (BE), **2018 - 2022**
*E*aswari Engineering College CGPA 8.72/10
*R*elevant Coursework:

- Object Oriented Programming
- Database Management Systems
- Data Structures and Algorithms
- Operating Systems
- Design and analysis of algorithms
- Computer Networks
- Soft Computing
- Computer Architecture
- Object Oriented Analysis & Design

PUBLICATIONS

Research Interests: Deep Learning, Computer Vision, Natural Language Processing, Data Science

1. **Comparison of Convolutional Neural Networks and K-Nearest Neighbors for Music Instrument Recognition**
   *A*dvances in Speech and Music Technology: Computational Aspects and Applications, **Springer International Publishing**, 2021, S Dhivya, Prabu Mohandas

EXPERIENCE

Software Developer August 2022 - Present
Zoho Corporation *Chennai, India*

- Part of the Manage Engine - Log360 Cloud OD Team
- Using ember js, Java, MySQL tech stack.
- Worked on the search page feature enhancement of the product.

Programmer Analyst Trainee Intern January 2022 – August 2022
Cognizant Technology Solutions *Chennai, India*

- Part of the Artificial Intelligence and Analytics (AIA) - Informatica Cloud Team.
- Analysed and tested Data warehousing techniques, ETL tools
- Created various mappings using Infomatica Powercenter, IICS.

Undergraduate Researcher May 2021 – December 2022
SRM Easwari Engineering College *Chennai, India*
Research intern under Prof. KPK Devan, Dept of Computer Science and Engineering:

- Worked on a fake tweet detection system that detects fake tweets related to COVID 19.
- Extracted tweets related to COVID 19 using tweepy and the twitter API.
- Developed an LSTM based model to detect fake tweets using NLP.

Summer Research Intern June 2021 – July 2021
NIT Calicut *India*
Research intern under Prof. Prabu Mohandas, Dept of Computer Science and Engineering:

- Developed a Music Instrument Recognition System
- Built CNN and KNN models and analysed their performance
- Both models performed with accuracy above 90%

SKILLS

Technical Skills	OOPS, DBMS (MySQL), Software Development, Data Structures, Algorithms, Machine Learning, Git/ Github - Open source software, Operating Systems (Linux, Windows)
Languages	C, C++, Python, Java, MySQL, HTML/CSS, Javascript, LATEX
Libraries	Numpy, pandas, opencv, scikit-learn, matplotlib, scipy, librosa

PROJECTS

For more projects visit https://github.com/dhivyasreedhar

COVID 19 AI Diagnosis Using only cough recordings : A pre screening tool has the potential to detect COVID 19 patients, including the asymptomatic ones with an accuracy of about 98%

Lane Detection for Self-Driving cars: A VGG-16 convolutional neural network is used for road segmentation. The model is trained on the KITTI Road/Lane Detection Evaluation 2013 dataset. The model performed well with an accuracy of 98.58%.

Music Instrument Recognition : A Convolutional Neural Network and a K nearest neighbour based classifier to detect the musical instrument present in a given audio file, with an accuracy of above 90%

Movie Recommendation System : A movie recommendation API that uses a item-based collaborative filtering algorithm which recommends 10 movies based on the entered movie

Spoken Digit Recognition : Classification Methods for Audio MNIST Dataset Dataset consists of recordings of spoken digits in wav files at 8kHz. The recordings are trimmed so that they have near minimal silence at the beginnings and ends.

Fake Tweet Detection : A LSTM Model is trained to detect fake tweets from twitter. 2 models are trained:
- Bidirectional stacked LSTM using pre-trained embedded vectors
- Bidirectional stacked LSTM without pre-trained embedded vectors from GLOVE

Both models performed well and gave accuracy of about 99%.

AWARDS & RECOGNITION

- Selected as a Summer Scholar for the 6th Summer School on Artificial Intelligence 2022 organized by **Centre for Visual Information Technology (CVIT), International Institute of Information Technology Hyderabad** from 18 July - 19 August 2022
- **Best Outgoing student award** of 2018 Batch and Scored **99/100** in Computer Science, XII (CBSE) Board Exam
- **4th Place** in PRIDE Project Presentation out of 500 students in my institute for project **Artificial Photosynthesizer**, won cast prize of Rs.10,000
- Selected as one of the six Student Mentors in my department. Responsibilities include mentoring junior students academically and providing guidance about their career prospects
- Invited to give guest lecture about **Visual Perception with Deep Learning** for the Department of Computer Science and Engineering in association with **EEC-Alumni Students Chapter and CSI Chennai**
- **2nd prize** in PRIDE Find a Bug Contest organized by Wisen IT Solutions in my institute
- **Organizing member of Vulcans– Cultural team of EEC** : Organized Swagat, Talentia and Retweet (Cultural Fests)
- Participated and won **Verbal Mention** in various **Model United Nations** including CAMBIO MUN, SRM Vadapalani MUN, SSNMUN
- **Department head of Youth Red Cross** - EEC Chapter