Rashmi Mertia

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EDUCATION

IIT JODHPUR

PRE-FINAL YEAR BTECH IN ELECTRICAL **ENGINEERING**

Expected May 2022 | Jodhpur, India CGPA 8.45/10 (upto 3rd sem)

KENDRIYA VIDYALAYA

SENIOR SECONDARY EDUCATION 2016-2017 | Jodhpur, India Percentage(PCM): 94.2/100

KENDRIYA VIDYALAYA

SECONDARY EDUCATION

2014-2015 Jodhpur, India CGPA 10/10

SKILLS

PROGRAMMING LANGUAGES

• C • C++ • Python

TECHNOLOGIES

- •HTML •CSS •Diango
- Keras Matlab

DATA SCIENCE

• Convolutional Neural Networks • Object Tracking • Recurrent Neural

Networks • OpenCV LANGUAGES

- English(proficient) Hindi(proficient)
- German(Familiar)

COURSEWORK

UNDERGRADUATE

Computer Programming Linear Algebra and Calculus

Differential Equations and Complex Analysis Probability Statistics and Random Processes

Basic Electronics Engineering

Digital Logic and Designs

Signals and Systems

Electromagnetism and Optics

Physics of Semiconductor Devices

Electromagnetic Theory

Power Systems

Circuit Theory

LINKS

Github://rashmimertia LinkedIn:// rashmimertia InterviewBit://rashmi

PROJECTS

URBAN SOUND CLASSIFICATION | BTech Project

Feb 2020 - July 2020 | Mentor: Dr. Rajendra Nagar

Open Sourced: Github

- A Voice Classifier Model based on **Convolutional Neural Networks** and Long Short Term Memory Networks(a class of Recurrent Neural Networks), implemented using Keras
- Trained and Tested the model on a standard 8k dataset of voices collected from UrbanSound8K

COCKTAIL PARTY PROBLEM | SELF PROJECT

Jan 2020 - April 2020 | Mentor: Dr. Rajendra Nagar Open Sourced: Github

- Blind source separation using Independent Component **Analysis.Negentropy** was used as the measure of non-Gaussianity
- Recovered the original component signals from the mixed signals without any knowledge about the sources

HAND SEGMENT DETECTION | SELF PROJECT

Sept 2019 - Nov 2019 | Open Sourced: Github

- A program using Open CV that can detect a Hand, segment the hand, and count the number of fingers held up in a video
- Found Contours and then counted the number of fingers held up by utilizing a Convex Hull

STAR SOCIAL | SELF PROJECT

June 2019 - December 2019 Open Sourced: Github

- A python-django based social site clone, which enables the users with core functionalities of creating/joining/leaving groups and posting in them
- The user interface was enhanced using Bootstrap a CSS framework and Misaka - a python library for improved HTML rendering in django

ACHIEVEMENTS

- Placed among **0.5%** of 1.05 million JEE 2018 aspirants
- Awarded as the best Academician of KVS Jodhpur in 2017 by MHRD

POSITION OF RESPONSIBILITY

STUDENT CO-ORDINATOR OF ALUMNI RELATIONS COMMITTEE AT IITJ

Nov 2019 - Present

- Managed and Organized 5th Convocation 2019
- Organized First Alumni Meet of IITJ for 120 alumni attendees working in group of 4

FXTRA-CURRICULAR

Assistant Head - Public Relations team of IGNUS (2020)

Core Member - Fine Arts Club