

Shravan.A.J

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EXPERIENCE

SAMSUNG | SAMSUNG PRISM DEVELOPER

Sept 2020 – Mar 2021 | Remote

- Worked as an intern under Samsung's PRISM program.
- Worked on **identifying relevant key frames** present in a given **audio sample**, as part of an **internal on-device AI model**.
- Final results included a **newly created dataset** with proper temporal labels for training, and a **CRNN** model based on **SEDnet** architecture.

PROJECTS

CHA-CHA-CHA | COMMAND-LINE APPLICATION WHICH USES THE CHACHA20 ENCRYPTION ALGORITHM.

Feb 2021 – May 2021 | VIT, Vellore

- A simple **command-line interface** tool which uses the **ChaCha20 encryption algorithm** to encrypt and decrypt text and image files.
- The CLI tool, as well as the encryption algorithm was implemented purely in **Python**, and uses no external libraries.
- The performance of **ChaCha20-Poly1305** and **AES-GCM** authentications were also compared and analysed as part of the project.
- Links: [Source code](#)

SCANZY | A WEB-APPLICATION WHICH USES DEEP LEARNING TO PREDICT PRESENCE OF COVID-19

Feb 2021 – May 2021 | VIT, Vellore

- It is a simple **web-application**, which can be used for detecting the presence of covid-19. It takes a chest x-ray image as its input, which is provided by the user.
- A simple **convolutional neural network** was trained using a free and open-source dataset, for making the predictions.
- Built using **HTML**, **CSS**, **Javascript** and the **Flask** framework.
- Links: [Source code](#)

NOTEMAKER | A WEB-BASED NOTE-TAKING APPLICATION

July 2020 – Oct 2020 | VIT, Vellore

- A note-taking **web application**, using which users can efficiently make notes, and access and categorize them according to course, term, year etc.
- Includes a **markdown editor** for taking notes easily, and also allows interaction via a **web-browsable API**.
- Built using **HTML**, **CSS**, **Javascript** and the **Django** framework.
- Links: [Source code](#) | [View hosted website](#)

IMAGE DE-HAZING AND FOG-REMOVAL | PROGRAM TO REMOVE FOG AND HAZINESS

Dec 2019 – Mar 2020 | VIT, Vellore

- An image retrieval project which works by removing the effects of fog and haze using the methods of **Dark Channel Prior** and **Color Attenuation Prior**.
- Built using the **OpenCV** library of **Python**.
- Links: [Source code](#)

EDUCATION

VIT UNIVERSITY

BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE AND ENGINEERING

Jul 2018 - Present | Vellore

Cum. GPA: 8.67

MAHARISHI VIDYA MANDIR S.S.S

SENIOR SECONDARY

Jul 2016 - Mar 2018 | Chennai

Percentage: 94.6%

SKILLS

Programming:

Python • C/C++ • Java • Golang

Front-end:

HTML • CSS • JavaScript • Bootstrap

Back-end:

Flask • Django • PHP

Database:

MySQL • SQLite3 • Postgres • MongoDB

MISCELLANEOUS

Git/Github • GNU/Linux • Vim

Bash scripting • Markdown editing

Jupyter Notebook

COURSEWORK

Data Structures and Algorithms

Object-Oriented Programming

Operating Systems

Database and Management Systems

Computer Networks and Communication

Image Processing

PUBLICATIONS

[1] Prajeeth Kumar M.J, **Shravan A.J**, Aarthan.A, Manjula R, "**Network Intrusion Detection using Machine Learning Techniques**", Volume 7, Issue X, International Journal for Research in Applied Science and Engineering Technology (IJRASET) Page No: 496-503, ISSN : 2321-9653

LINKS

Portfolio:// [shravancool.github.io](#)

Github:// [ShravanCool](#)

LinkedIn:// [shravan-a-j](#)