RAM PRATAP KALIDINDI

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Education

Indian Institute of Technology, Bombay
B. Tech. Computer Science and Engineering — *Aug. 2015 – May 2019*

- **CPI**: 7.02/10.00

Sri Chaitanya Narayana Jr college — Vijayawada
AP State Board Of Intermediate Education — *XII class*

- **Percentage**: 97.7

Experience

Software Development Engineer — June 2019 – Present
Application Framework - HomeScreen — ***Samsung Research Institute**, Noida*

- Worked as a software developer for the Samsung launcher development team.
- Improvement and Maintenance of launcher module.
- Involved in the development of certain features like easy mode, new widget development for android 11.
- Bugs fixing and issue resolution of launcher mainly involving performance issues, handling crashing, etc.

Skills

Languages: Python, C/C++, Java, SQL, JavaScript, HTML/CSS, R

Technologies: Pytorch, Android, Numpy, Pandas, Sklearn, Operating systems, Digital Rights Management(DRM), Multithreading(C++), GDB (GNU Debugger), Linux Shell Scripting, Django(Python), OpenCV.

Areas of Interest: Data Structures, Algorithms, Computer Vision, Image Process- ing, Internet Of Things, Object Oriented Programming.

Internships

FACE RECONSTRUCTION — May - Jul ' 18
Guide: Magendra Singh — ***SAMSUNG**, Noida*

- Developed an image facial reconstruction project for changing the facial expression of a persons face by using **3DMM** model with facial landmarks are given to perform a rough initialization of the model.
- Found the expressions coefficients from the face of one person [Reference] which are transferred to the face of another person [Target].

AUTOMATIC MAIL SEGREGATION WITH AUTO REPLY — May - Jul ' 17
Guide: Anoop .R — ***SBI(GITC)**, NAVI MUMBAI*

- **Bayes** model was used for spell correction of the email body before segregation.
- A local mailbox was used as a mail receiver, which receives the email and extracts the body of the email and segregate the email based on the some key words that are extracted.

Certifications

Convolutional Neural Networks in TensorFlow
https://coursera.org/share/152098dace0d6f11b279ef80f16a8856

Neural Networks and Deep Learning
https://coursera.org/share/fa904018399f91ed4600e364794bc1dd

Projects and Research

CRT-based Fully-Homogeneous Encryption Jan - Apr ' 19
Guide: Prof. Bernard Menezes *Under grad R&D project*

- A theoretical research paper to create and prove the CRT(chinese reminder theorm) based fully homogeneous encryption.
- A fully homogeneous encryption is an encryption where as many operations can be done with the encrypted messages upon decryption we get the message same as if operations done on the original message of encryptions.

HAND WRITTEN TEXT RECOGNITION Mar - Apr ' 17
Guide: Prof. Ganesh Ramakrishnan *Foundation to Machine Learning*

- Used supervised learning algorithms to convert handwritten text to machine-encoded text and trained using MNIST data which is already preprocessed.
- Implemented SVM and ANN classifiers using the python packages like Keras and Tensorflow.

QUORA May - Jul ' 17
Guide: Prof. S. Sudarshan *Database and Information System*

- Developed an android app for a question-answer forum which uses SQL backend for storing the user profile data and the content generated by the users.
- Users can follow any other users and a user's feed comprises posts of the users he follows. Each post can be followed up with comments also.

Additional activities

Languages: Python, C/C++, Java, SQL, JavaScript, HTML/CSS, R

Technologies: Pytorch, Android, Numpy, Pandas, Sklearn, Operating systems, Digital Rights Management(DRM), Multithreading(C++), GDB (GNU Debugger), Linux Shell Scripting, Django(Python), OpenCV.

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