Rithvik Chandan

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EDUCATION

PES UNIVERSITY

B.Tech Computer Science and Engineering
2017-2021
CGPA: 9.59 / 10.0

DPS, BANGALORE SOUTH

XII Grade (Senior Secondary), Science
2016-2017
Percentage: 94.2%

COURSEWORK

UNDERGRADUATE

Operating Systems
Database Management Systems
Web Technologies
Computer Networks
Cloud Computing & Big Data
Machine Learning
Data Analytics

SKILLS

PROGRAMMING

Over 5000 lines:
C++ • Python • HTML • MySQL
Over 1000 lines:
C • Java • CSS • PHP • ReactJS
Javascript • Kotlin
Familiar:
R • Android • Typescript

AWARDS

Distinction & CNR Rao Scholarship
Received distinction and CNR Rao scholarship awarded to top 20% of the students in all 5 semesters.

CDSAML Hackathon
Secured 3rd rank in Summer Hackathon conducted by CDSAML, PESU.

CERTIFICATIONS

Architecting with Google Compute Engine
Completed all 5 courses as part of the Architecting with Google Compute Engine specialization offered by Google. [Link]

Deep Learning (in Progress)
Completed 3 out of the 5 courses as part of the Deep Learning specialization offered by Deeplearning.ai.

EXPERIENCE

UDAAN | Lead Developer

June 2019 – Sep 2019

- Launched a revamped Feet on Street (FoS) application focused on expediting customer on-boarding and driving net new sales. The application includes features to add FoS members, attendance tracking, sign-up new customers, geo-tag stores and also extend credit lines. Used by 4000+ FoS team members at the time of development with significant weekly additions across 10+ cities.
- Technologies Used : Kotlin, ReactJS, HTML, Jenkins, Azure

YUKBA DESIGNER STUDIO | Full Stack Web Developer

Feb 2019 – May 2019

- Developed an online application for designer boutiques to manage customer orders. The website offers multiple functionalities to manage customer data in turn reducing arduous maintenance and book-keeping.
- Technologies Used : HTML, Javascript, PHP

RESEARCH

CAPS-PSRL, PESU | Mentor

May 2020 – July 2020

Mentor for Centre for Advanced Parallel Systems (CAPS) focusing on research and development of techniques and tools for automated bug detection and performance. Currently engaging with mentees and have given a seminar on *Landscape of Parallel Programming* to introduce Parallel Programming to mentees.

CDSAML, PESU | Research Intern

May 2018 – July 2018

Interned at Centre for Data Science and Applied Machine Learning (CDSAML) to develop a project that employs computer vision and machine learning to characterize fabrics based on their reflection property. Achieved high accuracy with a custom dataset of 900 images.

PROJECTS

MINIHIVE

Developed a working model of Hive on a smaller scale using Java, Map Reduce and Hadoop File System, which implements the functionalities that are required by an SQL query engine used in Big Data. Offers multiple features such as performing SELECT, WHERE, MAX, MIN, COUNT and AVG.

PIPELINED GAN

Created a pipelined GAN which uses concepts of pipelining in microprocessors and applies it to the area of machine learning. The model, implemented using PyTorch and Threading, achieves good quality images from the MNIST and FashionMNIST dataset with a speedup of up to 30% compared to similar serial implementations.

PUBLICATIONS

[1] R. Chandan, N. Pentapati, R. M. Koushik, and R. Nagpal. A high performance pipelined parallel generative adversarial network (PipeGAN). *Lecture Notes in Networks and Systems (LNNS)*, accepted for publication.

[2] K. K. Katrak, R. Chandan, S. Lanka, C. G. M, and S. S. S. Sparse reflectance map based fabric characterization. *Advances in Artificial Intelligence and Data Engineering*, in press.