Rithvik Chandan

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EDUCATION

PES UNIVERSITY
B.Tech Computer Science and Engineering
2017-2021
CGPA: 9.60 / 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 6 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
Completed all 5 courses as part of the Deep Learning specialization offered by Deeplearning.ai. [Link]

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
- Currently used by 10000+ FoS team members with significant weekly additions across 10+ cities.
- **Technologies Used:** Kotlin, ReactJS, HTML, Jenkins, Azure

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

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*, DOI: doi.org/10.1007/978-981-15-3514-7_19, August 2020.

PROJECTS

MINIHIVE
- Developed a working model of Hive on a smaller scale using which implements SQL functionalities on a distributed RDBMS
- MiniHive offers multiple features such as performing SELECT, WHERE, MAX, MIN, COUNT and AVG using dynamic MapReduce jobs
- **Technologies Used:** Java, Map Reduce and Hadoop File System,

PIPEGAN
- Designed and implemented a pipelined GAN which uses the concept of pipelining in microprocessors and applies it to the area of Machine Learning training
- The model achieved good quality images from the MNIST and FashionMNIST dataset with a speedup of up to 30% compared to similar serial implementations
- **Technologies Used:** Python, PyTorch, Threading