Sahil Unagar

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portfolio LinkedIn Github Codeforces Codechef

EDUCATION

Sardar Vallabhbhai National Institute of Technology (NIT) Surat, India Jul 2016 - June 2021
5-year Integrated M.Sc. in Applied Mathematics
Cumulative GPA: 8.8/10
Major Courses: Data Structures, Algorithms, DBMS, Operating System, Discrete Mathematics, Linear Algebra, Calculus, Statistics, Probability, Scientific Computing, Operations Research

EXPERIENCE

Staff Consultant, Oracle Financial Services Software July 2021-Current

I am working on a FLEXCUBE upgrade project, where I am building product extensions using SOAP protocol.
I am writing APIs to replicate data among the banking services product processors.
I am writing PL/SQL scripts for Data Migration from older version of the product to latest version.

Summer Research Fellowship, Central University of Tamil Nadu, India May - July 2019

Deep Learning for Large Scale Image Classification problem
Mentor: Dr. Ramesh Venkadachalam (Professor, Mathematics)
A fellowship sponsored by Indian Academy of Sciences (IAS) (one of top 50 selected students across india)
Built and analysed Convolutional Neural Network model for image classification on the dataset of cartoon characters having 42 different classes with highly imbalanced distribution
Accessed the effect of balancing techniques like Under/Over sampling, class-weighted learning while using transfer learning on pretrained architectures (ResNet and VGG19)
Got 75% accuracy on the test dataset and ranked 26th position on leaderboard

TECHNICAL PROJECTS

URL Shortener - web application May 2020

- A Java based Webapp that let's you generate short URL from a Long URL. It allows user to set their own custom short URL as well.
- Technology used: Java, Spring Boot for Dependency injection and Model View Controller, Hibernate and MySQL for Database Manipulation, IntelliJ IDEA for project development

Number Plate Recognition Sep-Oct 2019

- A system which can detect multiple number plates from the live video feed of a traffic, and can also recognise registration number from detected number plate.
- Technology used: Python3, Keras(with Tensorflow as backend), YOLOv2 model for Object Detection, OCR for registration number extraction, Jupyter Notebook, Google Colab

TECHNICAL SKILLS

	Programming	**Tools**	**Subjects**
Experienced	C++, Python	Keras, SKlearn, Jupyter-Notebook, GIT	Machine learning, DBMS, OOP
Basic	Java, C	Django, Spring-Boot, MySQL, LaTeX	OS, Networking

ACADEMIC ACHIEVEMENTS

- Completed 5 Deep Learning Specialization courses with above 95% grade points (deeplearning.ai)
- Got 2nd rank in SVNIT in Discovry coding challange by Scalar academy
- Ranked in top 5 among 50 student in the "Introduction to Python workshop" held at SVNIT