Vishal Mittal

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EDUCATION

BITS Pilani   Rajasthan, India
Bachelor of Engineering (Hons.) Computer Science, GPA: 9.20/10   *Aug 2017 – May 2021*

Relevant Courses: Operating Systems, Cloud Computing, Object Oriented Programming, Data Structures and Algorithms, Database Systems, Computer Networks, Compiler Construction

EXPERIENCE

Intern, Member of Technical Staff   Jan 2021 – Present
Nutanix   *Bangalore, India*
- Working in Platform Solutions team on getting the hardware data collector tool to GA stage
- Automated the analysis and comparison of hardware data collected by old and new tools to discover bugs in the new tool
- Implementing features in hardware abstraction library to make it more robust

Summer Analyst   May 2020 – June 2020
Goldman Sachs   *Bangalore, India*
- Worked in ML and Analytics team under Engineering Division
- Built a model to predict real-time anomaly in time-series data leveraging deep learning techniques like LSTM

Research Intern   May 2019 – July 2019
Indian Institute of Remote Sensing (IIRS, ISRO)   *Dehradun, India*
- Developed a web platform to identify potential suitable habitat for swamp deer in Jhilmil Jheel region near Haridwar
- Implemented a feature of reclassifying images on the fly on the basis of suitability
- Platform helped researchers to quickly test and verify new areas for suitability of animals based on satellite imagery data
- Tech used: PostgreSQL database to store satellite imagery data, HTML/CSS, JS, Python, Django

TECHNICAL SKILLS

Languages: C/C++, Java, Python, SQL, JavaScript
Developer Tools: Git, GitHub, Docker

PROJECTS

Storage System - Cloud Computing | *Python, Flask, Zookeeper* | Github   Nov 2020
- A storage system for Shopping Cart data, and an API to access it written in Python
- Implemented Leaderless replication, data partitioning and eventual consistency
- Used CRUSH hash function for mapping, Zookeeper for coordination, read-repair using version vectors for consistency and Flask to build the API

Real Time Identity Detection System - Deep Learning | *OpenCV, Python* | Github   Jan 2020 - May 2020
- Devised a college-wide CCTV camera-based real-time surveillance system for 5000+ students in BITS Pilani
- Used Python's face recognition library integrated with Flask to create an attendance system that allows users to register themselves with their images and consequently mark their attendance by simply facing the camera
- Calculated unknown face encoding by training a modified VGG-16 ConvNet on a triplet loss function. Only one training image per class is required

Compiler Construction | *C* | Github   Jan 2020 – Apr 2020
- Implemented a compiler for a custom language in C
- Implemented lexical Analyzer, Syntax Analyzer, Semantic Analyzer, and Code generator modules

Question Answering System - Natural Language Processing | Github   Aug 2019 – Dec 2019
- A Study Oriented Project for Ranking-Based Question Answering System
- Developed a Chrome Extension which consists of a question interface where the user can ask any question
- Created a Question Selection Web Service using Flask to handle the backend and used SVM model for question classification

AWARDS AND RECOGNITIONS

Techgig Code Gladiators 2020   *Aug 2020*
- Reached the Grand Finale (top 800 participants) of Techgig Code Gladiators 2020 among more than 2.5 lakh participants

Google Tech Intern Connect - 2019   *June 2019*
- Selected as one of 400 participants nationwide for Google Tech Intern Connect - 2019 event

KVPY Scholar   *Dec 2016*
- Attended National Science Camp (Vijyoshi) - 2016 held at IISER Kolkata for KVPY scholars

SCHOLARSHIP

- Received BITS Pilani Merit Scholarship throughout my degree programme awarded to top 2% of the students