

Vishal Mittal

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EDUCATION

BITS Pilani

Bachelor of Engineering (Hons.) Computer Science, GPA: 9.30/10

Rajasthan, India

Aug 2017 – May 2021

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

EXPERIENCE

Software Engineer

Goldman Sachs

- Working on deploying models in production and automating the release workflow

July 2021 – Present

Bangalore, India

Intern, Member of Technical Staff

Nutanix

- Worked in Platform Solutions team on developing a Proof of Concept for building a database of server nodes and their command outputs to enhance developer productivity
- Built a server to quickly search a node based on requirements and to see how the hardware reacts to various commands
- Automated the comparison and analysis of hardware data collected by different tools and implemented features in the hardware abstraction library to make it more robust

Jan 2021 – June 2021

Bangalore, India

Summer Analyst

Goldman Sachs

- 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

May 2020 – June 2020

Bangalore, India

Research Intern

Indian Institute of Remote Sensing (IIRS, ISRO)

- 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

May 2019 – July 2019

Dehradun, India

TECHNICAL SKILLS

Languages: Python, C/C++, Java, SQL

Developer Tools: Git, GitHub, Docker

PROJECTS

Storage System - Cloud Computing | *Python, Flask, Zookeeper* | [Github](#)

- 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

Nov 2020

Compiler Construction | *C* | [Github](#)

- Implemented a compiler for a custom language in C
- Implemented lexical Analyzer, Syntax Analyzer, Semantic Analyzer, and Code generator modules

Jan 2020 – Apr 2020

Question Answering System - Natural Language Processing | [Github](#)

- 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 for backend and used SVM model for question classification

Aug 2019 – Dec 2019

PUBLICATION

Kumar N., Mittal V., Sharma Y. (2021) "A Three-Fold Machine Learning Approach for Detection of COVID-19 from Audio Data". ICCSA 2021. Lecture Notes in Computer Science, vol 12951. Springer, Cham. [Paper Link](#)

AWARDS AND RECOGNITIONS

Merit Scholarship

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

May 2021

Google Tech Intern Connect - 2019

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

June 2019

KVPY Scholar

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

Dec 2016