

# PIYUSH VEDWAL

## BTECH CSE THIRD YEAR STUDENT

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Github : <https://github.com/PiyushVedwal7>

### Education

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#### UPES

Bachelor of Technology in Computer Science (Big Data) 3<sup>rd</sup> year

AUG 2022 – Present  
CGPA -8.02

#### CARMAN RESIDENTIAL AND DAY SCHOOL

Intermediate in PCM

2019 - 2020  
81%

High School

2017-2018  
88.6%

### Technical Skills

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Languages: Python ,Scala, Java

Development: Django, Spark ,Kafka.

Database: MongoDB, Mysql.

Developer tools: VScode, Git, GitHub , PowerBi ,DataBricks.

CS Fundamentals: Operating System, DBMS, Object-oriented Programming, Computer Networks..

### Projects

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Random Quote Generator (Backend Internship)

June 2024

This project was a initiation to learn about working with Rest Api and creating api .While working on this project I learnt about internal of api how api request is made and how custom api is created

Tech used : Django ,Python , Html

Resume Generator (Authentication)

July-August 2024

This was a group project during the intership where my role was to work on the authentication part where I used Django built in login and register

Tech used : Django,Python

IPL data analysis using Spark and databricks

May 2024

This is a end to end data analysis project where I implemented my learning throught the vacations I used databricks to use spark and fetched dataset from s3 bucket here I learned about hive tables , inbuilt visualization,Spark sql many more

Tech used : Pyspark, Python, SparkSql

Data migrator for sql to nosql

July 2024

Another data related project which was a learning phase to my data pipelines where I was learning if we tranfer data from structured to semi-structured format where this project helped and helped to understand more about spark and databases

Tech used : Mongoddb,Mysql,Python

## **Employee Management System**

**May 2024**

This project was a implementation of django along with database here I learnt about django mvt and orm which are django's unique features and make it a powerful tool

Tech used : Orm ,Html ,Django ,html

## **Load Partitioning in Spark (Standalone Cluster)**

**August 2024**

This project aims to use partitioning feature of Spark to reduce the load from the cluster and usage of Parquet file format to compress the size of each partition when being stored Ex there will be diff storage for every date .

## **Soil Monitoring System**

**September 2024**

This is going to be a project leverages the use of real time data streaming along with use of sensors to monitor real time health of the soil including water content, ph level etc

Usage of apache kafka for real time data flow and spark streaming to process such data , a flexible database to store data as well as alert generation when threshold attained

## **Custom Nosql Database(minor)**

**August 2024 - Present**

This project combines the greatest features of No-SQL and SQL systems, marking a significant improvement in database administration.

Using JAVA without any frameworks designed a system that can preform crud operations in the fashion which

Db's like Mongoddb does ,issues faced during development were data storage issues,developing custom queries ,

Efficient schema , handling scalability issues,error handling and more.

## **Achievements**

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UPES CSI HACKATHON pre finale round  
IBM ICE DAY (TECHNICAL POSTER PRESENTER)  
Hacktoberfest Contributor 2024

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## **Leadership / Extracurricular**

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- Constantly searching for new project areas in the field of data
- Ibm Ice day poster presenter
- Hackathon (Teamworker)
- Xebia Fest (Data Storm)
- Cyber Sentinel (Bug Ploison)