SAHIL SAMEER DESHPANDE
Course : **B.Tech**, Computer Engineering, 2025
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Mobile : 8799979808
CGPA : 8.18

SUMMER INTERNSHIP / WORK EXPERIENCE

Summer Intern, Akamai Technologies **Jun 2024 - Aug 2024**

- Worked as a developer for upgrading **ETL** solution code from **PHP** Version 8.1 to 8.2.7
- Worked on bug fixes and enhancements for migration of data from **PostgreSQL** , **MySQL** databases

Subjects / Electives	Programming for Problem Solving, OOPS, Computer Networks, Principles of Programming Languages, Data Structures and Algorithms, Operating System, Database Management Systems
Technical Proficiency	SQL, Spring Security, Matplotlib, Maven, C++ Language, HTML + CSS, CNN, PostgreSQL, C Programming, NumPy, NLP, PHP, JavaScript, React.js, JUnit, Machine Learning, Artificial Neural Networks, Node.js, Extract, Transform, Load (ETL), Django, MongoDB, Spring Data, DBMS, Java, PyTorch, Express.js, Shell Scripting, Scikit-Learn, Linux, Linear Regression, Github, Data Science, Tkinter, Keras, Neural Networks, Python, Deep Learning, Pandas, Bootstrap, Computer Networking, Spring Boot, Tensorflow, Object-Oriented Programming (OOP), Spring Framework

PROJECTS

Comparative Analysis of E-Commerce Products Across Multiple Platforms - HTML CSS React.js Express.js MongoDB Python
Apr 2024 - Apr 2024

- This project aims to **compare products** from various e-commerce websites.
- It includes a backend for data handling and scraping built with **Node.js**, **Express** and **Python**, a frontend built with **React** and **Vite** for user interaction, and various configuration files for development setup.
- The project aggregates and contrasts product information, helping users make informed purchasing decisions by providing a side-by-side comparison of similar items from different e-commerce platforms.
- It also has a feature to find products **similar** to the one searched by the user using **Cosine Similarity**
- **Github Link** : https://github.com/amansayyad2003/A-Comprehensive-E-Commerce-Comparison

Huffman Coding - Python **Feb 2024 - Feb 2024**

- Huffman Coding is a popular algorithm for lossless data compression that assigns variable-length codes to input characters, with shorter codes given to more frequent characters.
- The algorithm works by constructing a binary tree, known as the Huffman tree, where each leaf node represents a character and the path to each leaf node represents its corresponding code.
- Executed the **compress method** to compress the file and obtain a **.bin file**.
- Executed the **decompress method** to decompress the compressed file and obtain a **_decompressed.txt file**.
- **Data Structures Used**:
  1. **Min Heap (Priority Queue)**
  2. **Binary Tree**
  3. **Dictionaries**
- **Github Link :** https://github.com/Sahil-Deshpande-2003/Huffman_Coding

Optimized Matching System for Candidates and Job Positions: A Dual Approach for Employers and Job Seekers - Python React Express.js
Jan 2024 - Jan 2024

- Frontend, which is built in **React** , allows Job Seekers to upload their resume , as well as HR to upload Job Description along with the resumes of the candidates
- Job Seekers upload their resume PDFs and receive tailored job opportunities based on their skills extracted from CareerBuilder using **Cosine Similarity**
- HR upload job descriptions and candidate PDFs, and find the best candidate for the job using **Cosine Similarity**
- **Github Link** : https://github.com/Sahil-Deshpande-2003/Resume_shortlisting_and_job_opportunities

DNS Server - Computer Networks Python **Nov 2023 - Nov 2023**

- This project involves the implementation of a **DNS server.**

- You can give any domain and the servers will give you the respective **IP Addresses.**
- It also uses **local cache** to store the recently queried domains.
- **Github Link** : https://github.com/Sahil-Deshpande-2003/Computer_Networks_Project

Library Management - Django HTML CSS **Aug 2023 - Aug 2023**

- This project involves the use of **HTML**, **CSS**, and **Django** to create a library management system
- The user can issue and return a book,
- The librarian can observe the issuers of a book
- He/she can also add a new book to the system.
- **Github Link** : https://github.com/Sahil-Deshpande-2003/RPOOP_library_management

Plant-Disease-Prediction using CNN - Deep Learning CNN Python **Jul 2023 - Jul 2023**

- This project aims to develop a Streamlit Application for predicting plant diseases using Convolutional Neural Networks (CNNs)
- Deployed **Streamlit** App using **Dockerfile**
- This type of image classification helps in early detection and treatment of plant diseases, which is crucial for agriculture and food production
- It involves setting seeds for reproducibility, loading and preprocessing image data, defining a **Convolutional Neural Network (CNN)**, and training it using the **ImageDataGenerator** for real-time data augmentation
- Libraries used: **TensorFlow , Keras, NumPy, PIL, Matplotlib**
- **Github Link** : https://github.com/Sahil-Deshpande-2003/plant-disease-prediction-CNN

Breast Cancer Classification with Neural Network - Python **Jun 2023 - Jun 2023**

- This projects uses **Neural Networks** to classify **breast cancer tumors as benign or malignant** based on cell nuclei features from the Breast Cancer Wisconsin (Diagnostic) Dataset.
- The neural network model is trained over a specified number of epochs using **adam optimizer** and **sparse categorical cross-entropy loss function**
- The model achieves high accuracy in distinguishing between benign and malignant tumors, leveraging standardized data preprocessing and a simple neural network architecture.
- Libraries used: **TensorFlow, Keras, Pandas, NumPy, Scikit-Learn**.
- **Github Link** : https://github.com/Sahil-Deshpande-2003/Breast_Cancer_Classification

Implementation of Text Editor using Compressed Tries - Data Structures C **May 2023 - May 2023**

- This project involves the implementation of **text editor** using **compressed tries**.
- It also involves **auto complete feature**, only for the keywords of some programming languages.
- It also has a feature to save the file in the same directory
- **Github Link** : https://github.com/Sahil-Deshpande-2003/DSA_Text_Editor/tree/main

End-to-End Machine Learning Pipeline for Real Estate Price Prediction - Python **May 2023 - May 2023**

- The project uses **Machine Learning** to **predict Real Estate Prices**
- The project utilizes various models like **Linear Regression** , **Decision Tree Regressor** , **Random Forest Regressor** to analyze and forecast property prices based on provided data, helping users estimate market values accurately
- Libraries used in this project include : **Scikit-Learn** for machine learning algorithms and evaluation, **Pandas** for data manipulation, **Numpy** for numerical computations, **Matplotlib** for data visualization and **Joblib** for saving and loading models.
- **Github Link** : https://github.com/Sahil-Deshpande-2003/Price_Prediction_ML

Binary Calculator using Linked List - Data Structures **Apr 2023 - Apr 2023**

- This project involves the replication of a **Binary Calculator** using **Linked List**.
- The main idea behind this project is that there is a limit to the range of an integer so we can't exceed that range while performing mathematical operations.
- However, there is no such range for a linked list.
- So we can use a linked list to perform mathematical operations involving large numbers
- **Github Link** : https://github.com/Sahil-Deshpande-2003/Binary_Calculator

JobConnect: A Comprehensive Job Listing and Application Platform - Java Spring Boot MongoDB Maven React Node.js npm **Feb 2023 - Feb 2023**

- The platform enables HR professionals to effortlessly hire talented individuals.
- Job seekers can seamlessly explore diverse job opportunities
- The frontend, built in **React,** includes UI components offering options for hiring talent for HR and finding jobs for job seekers.
- Backend , which is built in **Java , Spring Boot , Maven ,** contains the controllers, repositories and models for the project
- **Github Link** : https://github.com/Sahil-Deshpande-2003/JobConnect

2048 Game Project - Python **Oct 2022 - Oct 2022**

- Developed a **Python-based GUI** for the classic game "2048" using **Tkinter**.
- Integrated game logic, user input handling, and dynamic UI updates.
- Achieved a responsive design with win/loss feedback.

- Achieved a responsive design with win/lose feedback.
- **Github Link** : https://github.com/Sahil-Deshpande-2003/2048_Game_Project

AWARDS AND RECOGNITIONS

Earned Achiever, Specialist and Master badges on Codestudio | Codestudio **Feb 2024**
Code Studio profile : https://www.naukri.com/code360/profile/4c6fbd4b-fad4-4b11-bce2-820616b96946

Solved 200+ problems on GeeksforGeeks | GeeksforGeeks **Jan 2024**
GeeksforGeeks Profile : https://www.geeksforgeeks.org/user/sahsdep/

Abacus Level-2 | SAPS **May 2013**

CERTIFICATIONS

CERTIFICATION	CERTIFYING AUTHORITY
Data Structures and Algorithms in C++	Coding Ninjas
Data Structures and Algorithms in Python	Coding Ninjas
Introduction to Python	Coding Ninjas
Complete Data Science Boot Camp	Udemy

TEST SCORES

TEST NAME	DATE OF EXAM	SCORE
MHT CET	Sep 20, 2021	Score:172/200

ACADEMIC DETAILS

COURSE	INSTITUTE/COLLEGE	BOARD/UNIVERSITY	SCORE	YEAR
CLASS XII	G H Raisoni Vidya Niketan Nagpur Maharashtra	CBSE	72.4 %	2021
CLASS X	Centre Point School Katol Road Nagpur MR	CBSE	90.6 %	2019

POSITION OF RESPONSIBILITY

Blue House Prefect - Centre Point School **Apr 2018 - Feb 2019**
Collaborating with other school leaders, including the School Captain, teachers, and administrators, to achieve common goals.

I was a part of the organization team for events such as Founder's Day, Sports Day,Fete, and Concert

EXTRA CURRICULAR ACTIVITIES

Computer Science
Member of Computer Society of India, COEP Tech Student Chapter

VOLUNTEER EXPERIENCE

Centre Point School - Role: Member of Cleanliness Drive | Cause: Social Services **Jan 2017 - Jan 2017**

Participated in the Cleanliness Drive to clean the area near Futala Lake. Contributed to efforts in removing litter, organizing waste disposal, and promoting environmental awareness among the local community. Worked collaboratively with other volunteers to enhance the beauty and cleanliness of the lake surroundings, aiming to foster a healthier and more sustainable environment for all

LANGUAGES KNOWN

English, Marathi, Hindi