Ayush Verma

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Skills

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

Technologies & Tools: Nltk, Dash, Pandas, Flask, OpenCV, SAS, Git/Github, AWS, S3, Lambda, Athena, ETL jobs, QuickSight, Sagemaker

Internships

PSIT Research Department January 2024 - Present

Research Assistant

- Utilized the **CloudSim framework for the analysis of VM resources** and **implementation of cloud computing algorithms**.
- **Visualized data graphs and statistics** to illustrate research findings and resource optimization that demonstrated a 15% faster allocation, 20% higher VM utilization, and 25% enhanced system efficiency.
- Contributed to projects that resulted in a 40% improvement in system performance and a 25% reduction in load times.

Accenture May 2024

Virtual Internship

- Completed a simulation focused on **advising a hypothetical social media client as a Data Analyst**, where I **cleaned, modeled, and analyzed 7 datasets**, uncovering insights that led to a 15% increase in content engagement and a 10% improvement in user retention.
- Created a PowerPoint deck and video presentation, enhancing decision-making efficiency by 20%.

Cognizant September 2023

Virtual Internship

- Conducted exploratory **data analysis for Gala Groceries using Python and Google Colab**, identifying key trends and insights that improved decision-making processes by 15%.
- **Developed a Python module to train a model** and output performance metrics, increasing model accuracy by 20% for the **Machine Learning** engineering team.

Education

Pranveer Singh Institute of Technology, Kanpur November 2021 - July 2025
B.Tech. in Computer Science and Engineering *(upto 5th semester)* ***CGPA: 7.4/10***
Relevant Coursework: Object Oriented Programming, Databases, Data Structures and Algorithms, Operating Systems, Computer Networks, Machine Learning, Data Analytics

Project Work

- **MultiFormat Interpreter:** A**utomated content extraction from PDFs, TXT, CSV, JSON, and XLSX files** using Python with PyPDF2, pandas, and json libraries. Implemented a **user-friendly interface for file path input and prompt-based code generation using the GPT-4All model**, achieving 95% user satisfaction in usability testing. Used Python, PyPDF2, pandas, json, GPT-4All.
- **SAS Health Metrics Analysis:** Developed a SAS program to **process data from Excel sheets, calculating Body Mass Index (BMI) and categorizing individuals based on BMI values**. Automated report generation using macros to produce frequency tables and pie charts, revealing a 20% prevalence of overweight individuals and gender-specific BMI distributions. Used SAS programming, Excel data import, macros for automation, statistical analysis.
- **Lexical Parser:** Extracted textual data articles from specified URLs using web scraping techniques.**Applied natural language processing (NLP) tools to perform sentiment analysis, keyword extraction, and readability metrics on the text data.** Achieved an accuracy rate of 85% in sentiment analysis and identified key themes through keyword extraction. Used Python, BeautifulSoup, NLTK, Pandas, Matplotlib.

Achievements

- **Finalist at WoodPechker's Hackathon for designing a disaster prediction and real-time response system, accurately alerting users within 10 minutes using 5,000+ data points.**
- **Solved over 500 problems on Leetcode and other Coding Platforms with a 61.27% Acceptance rate, demonstrating Strong Coding Proficiency.**
- **Earned 5-star ratings in Python Programming and Problem Solving on Hackerrank, demonstrating exceptional Proficiency and Logical Skills.**
- **Earned a 4-star rating in C programming on Hackerrank.**
- **Achieved an SAS Programming Certification from Internshala Trainings with a Score of 84%.**