

Anshika Khandelwal

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Overview

As a graduate student in Computer Science at California State University, Fullerton, with 4 years of data analysis experience, specialized in Python, SQL, Machine Learning, and Data Visualization. Proficient in handling large datasets, optimized processes, and driven data-driven decisions through innovative projects and certifications.

Technical Skills

Skills: **Machine Learning, Predictive Modeling, scikit-learn, Pandas, NumPy, Generative AI(GPT, GANs, LLM), NLP, Computer Vision..**

Statistical Analysis: **Hypothesis testing, A/B testing.**

Data Visualization: **Matplotlib, Seaborn, Tableau, Power BI** Programming: **Python, R, SQL, SAS, Java Script**

Version control: **GIT, GitHub.** Big Data: **Hadoop, Hive, Spark, Databricks, Snowflake** Cloud Technology: **GCP, Azure**

Certifications: **Google Data Analysis, AWS Cloud Practitioner (Amazon), Web Developer Bootcamp (Udemy)**

Experience

Data Analyst, California State University– Fullerton

May 2023 - Present

- Standardized survey data collection accuracy and completeness by implementing data validation techniques using tools such as Microsoft Excel and Python Scripting, leading 95% completion rate of database.
- Accomplished a 30% increase in data analysis efficiency by identifying data anomalies using several tools.

Software Engineering Intern, Birlasoft– Pune

Mar 2022 – June 2022

- Spearheaded the architecture and implementation of booking software, leveraging SQL for database management. Engineered streamlined appointment and resource booking capabilities with a focus on data security.
- Deployed user-centric search and booking enhancements, elevating user satisfaction by 40%. Implemented stringent security protocols, resulting in a 50% reduction in data breaches.

Machine Learning Intern, Suvidha Foundation – Nagpur

Dec 2021 – Mar 2022

- Led data cleansing team, improving data quality by 30%. Implemented several Machine Learning algorithms, enhancing video analysis accuracy by 25%.
- Developed a system to generate video summaries, increasing efficiency by 40% and achieved accurate analysis and summary generation for videos, optimizing data processing and enhancing content accessibility.

Data Analytics Intern, Vaya Media– Raipur

June 2021 – Dec 2021

- Conducted advanced data analysis, utilizing statistical software and machine learning algorithms to extract insights from complex healthcare datasets.
- Analyzed large datasets, deriving actionable insights and recommendations. Developed data visualizations and reports using Power BI and Tableau, aiding in company growth. Contributed to a 22% increase in revenue through data-driven strategies.

Data Analyst, Prahlad P. Chhabria Research Center (PPCRC) - Pune

Jan 2019 – Dec 2019

- Assisted in data analysis tasks such as data acquisition, data extraction, data cleaning, data transformation, and data manipulation.
- Utilized SQL and Python to wrangle and preprocess large datasets for analysis, enabling stakeholders to make data-driven decisions.

Projects

[Face Recognition Attendance System](#), Python, OpenCV

- Developed a system using Python and OpenCV for automated attendance tracking with 98% accuracy. Reduced manual errors and processing time by 70% by integrating with existing management software
- Implemented features like camera capture, face training, recognition, and automatic email notifications.

[Interview-Voice Based Chatbot](#), Python, OpenAI, Flask

- Integrated face recognition and tab switching features into a Python-based voice chatbot, backed by OpenAI for backend logic. Enabled interactive practice of computer science interview questions with speech recognition (Speech-Recognition) and natural language processing (NLTK)

[Frost Identification on Mars using CNN](#), Pandas, TensorFlow, NumPy

- Trained a 3-layer CNN + MLP architecture on 214 HiRISE subframe images (5120*5120 px) of Martian terrain to identify frost. Achieved a test macro average f1-score of 92% using various data augmentation and processing techniques.

[Map-Reduce Analytics](#), Hadoop, Map-Reduce

- Builds data pipelines to collect and arrange data and manage data storage in 'big data environment. Led the development of a scalable Index Engine for a Data Analysis and Information Retrieval project.
- Designed and executed MapReduce tasks to process files, calculate TF-IDF values, and generate document vectors. Achieved a 40% increase in data processing speed and a 30% improvement in retrieval accuracy, enhancing overall system performance.

Education

Master of Science, Computer Science, California State University, Fullerton

May 2024

Bachelor of Engineering, Information Technology, Savitribai Phule Pune University, Pune

June 2022

Honors Degree, Data Science, Savitribai Phule Pune University, Pune

June 2022