

AMRITPAL SINGH

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SUMMARY

Aspiring Data Scientist, currently pursuing a Post-Graduation in Data Analytics for Business at St. Clair College of Applied Arts & Technology. Proficient in Python, Machine Learning, SQL, NoSQL, Data Manipulation with Pandas and NumPy, Data Visualization using Matplotlib, Seaborn, Tableau and Power BI. Passionate about data science field, with a commitment to staying updated on the latest trends and advancements in the field. Possessing a problem-solving mindset, effective communication skills, and strong management capabilities. Actively seeking position in the field of Data Science to contribute my skills to my organization, gain practical experience and learn from industry professionals.

EXPERIENCE

Data Analyst

Midtown Associates

11/2021 - 07/2023 Mohali, India

- Project:** I initiated and developed an Information Retrieval (IR) model, utilizing authentic data from the energy industry. This model played a pivotal role in retrieving only valuable information from large raw data. Additionally, I worked on an NLP model that evaluated the importance of given content, enhancing the prioritization of critical information within the specified domain and achieved a 96% accuracy rate. I worked with Algorithms (Decision Tree, Random Forest), Regular Expressions, and Azure Storage Services (CosmosDB, Blob Storage, Table Storage, Triggers).
- Proficiently engaged in routine data cleansing and formatting tasks using advanced Excel techniques on a daily basis.
 - Spearheaded initiatives such as the development of an Information Retrieval Model utilizing Natural Language Processing (NLP) and Machine Learning, coupled with robust database management.
 - Demonstrated expertise in leveraging Azure Storage Services to cater to diverse project requirements, ensuring seamless and efficient data storage solutions.
 - Engineered a comprehensive codebase designed to streamline and optimize various operational aspects, including data retrieval, validation, and dynamic data manipulation tasks. Reduced more than 70% of manual workload by automating these processes.
 - Supervising and managed a variety of codebases created by team members. Implemented thorough validation procedures, established systematic organizational practices, and designed a framework to ensure the smooth execution of codes and database operations.

Junior Analyst

WBO Solutions

12/2020 - 05/2021 Mohali, India

- Project:** Managed a detailed visualization project in the digital marketing sector, creating Google Data Studio reports to extract key insights from large datasets. Used user-friendly tools like Excel, Google Sheets, macros and Google Data Studio to produce clear visualizations that supported informed decision-making resulting in increased sales and reduced repetitive work.
- Assumed the role of Junior Analyst, proficiently utilizing tools such as Google Analytics, Google Search Console, Google AdWords, Google Data Studio, and advanced Excel to drive data-driven insights.
 - Executed effective Amazon PPC campaigns, skillfully navigating Seller Central and Shopify, contributing to streamlined operations and insightful analytics.
 - Applied advanced Excel skills to analyze and interpret data, providing key insights crucial for strategic decision-making, while optimizing digital marketing efforts through Google Analytics and Google Data Studio for comprehensive reporting.

SKILLS

Python	Machine Learning	Deep Learning	Neural Networks	CNN & RNN	NLP & NLU	LLMs	
Transformers	Tensorflow	Statistical Modeling	Building Data Pipelines	Azure Cloud Storage Services			
Designing Database Architecture		SQL & NoSQL	CosmosDB	API Data Retrieval	Automation with Python		
Tableau	Power BI	Speech Recognition	Advanced Excel	Flask	Web Scraping	Pandas	Numpy

EDUCATION

Data Analytics for Business (Post-Graduation)

St. Clair College

09/2023 - Present Windsor, ON, Canada

- Covered Machine Learning, Python, Advanced Statistics, Business Analytics, Visualization, Introduction to Artificial Intelligence.
- Collaborated under the guidance of my professor to initiate and develop a comprehensive Grading System project from scratch. Employed cutting-edge technologies, including Python, Flask, CosmosDB, and Blob Storage, to design and implement the system, showcasing a proficiency in full-stack development and project management.

GPA
4.0 / 4.0

EDUCATION

Bachelor of Engineering - Information Technology

Chandigarh University

📅 2016 - 2020 📍 Punjab, India

CERTIFICATIONS

Data Science

edWisor (10/2020 - 08/2021)

Gained proficiency in applying Python to implement machine learning algorithms, utilized visualization tools like Tableau and QlikView, and acquired knowledge in Advanced Excel, SQL, NoSQL, NLP, and Deep Learning. Immersed in contemporary industry technologies, received mentorship from experienced industry professionals, covering both technical expertise and the enhancement of soft skills.

Machine Learning

TCIL-IT (12/2018 - 02/2019)

Acquired foundational knowledge in machine learning using Python, gained proficiency in data visualization through tools such as Matplotlib and Seaborn, and explored diverse statistical techniques. Applied these skills to analyze various datasets, demonstrating a comprehensive understanding of data manipulation and analysis techniques.

Core Python

TCIL-IT (05/2018 - 06/2018)

Attained proficiency in Python programming, progressing from fundamental to advanced concepts. Successfully utilized Tkinter for developing graphical user interfaces and executed projects employing this skill. Applied OpenCV in a specific project, further enhancing my practical experience in diverse programming applications.

PROJECTS

VisionAssist: Intelligent Navigation for the Visually Impaired

📅 02/2024 - Present

- **Description:** In this project, we are constructing a personal assistant tailored to offer precise guidance for visually impaired individuals in their interactions with the surrounding environment. Users can effortlessly interact with the model using voice commands, streamlining communication. Also, we will showcase this project in upcoming competition called 'Ford Innovation'.
- **Technologies Used:** Python, NLP, LLMs, OpenCV, TensorFlow, Transformers, NoSQL, Cloud Services, etc.

Credit Card Segmentation

📅 06/2021 - 07/2021

🔗 <https://github.com/Amrit1810/Credit-Card-Segmentation>

- **Description:** Implemented unsupervised learning techniques to perform credit card segmentation, creating clusters for data analysis using k-means clustering and mean shift algorithms.
- **Technologies Used:** Python, Machine Learning, Matplotlib, Seaborn, Job lib.
- **Algorithm:** K-Means Clustering.

Sarcasm Detection

📅 05/2021 - 06/2021

🔗 <https://github.com/Amrit1810/Sarcasm-Detection>

- Developed a Natural Language Processing project for sarcasm detection with {85%} accuracy using logistic regression and random forest algorithms.
- **Technologies Used:** Python, Machine Learning, MongoDB, Word Cloud, Text Mining, NLTK, JSON, Job lib.
- **Algorithms:** Logistic Regression, Random Forest.

K&K Personal Assistant

📅 01/2019 - 01/2020

- **Description:** Created a dual-voice personal assistant capable of performing various tasks such as studying, health monitoring, and entertainment through voice commands.
- **Technologies Used:** Python, Speech Recognition, Web Scraping, pyttsx3, gTTS, Google APIs.

EXTRA-CURRICULAR ACTIVITIES

Speaker

Google Data Student Club

📅 03/2024 📍 Windsor, ON, Canada

As the speaker at the "Academic Vs Real-World Programming" session at St. Clair College, I discussed coding efficiency, covering topics like memory, speed and time optimization. I also shared some resources which students can utilize to learn and grow in the field.