

Swarnim Deshpande

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EDUCATION

Atria Institute Of Technology

Bachelor of Engineering in Computer Science[Data Science]

Bengaluru, Karnataka

2022 – 2026

Guru Nanak Public School

Class X, CBSE

Bidar, Karnataka

2007 – 2020

PROJECTS

Amazon Product Recommendation System

- Developed a personalized product recommendation system using collaborative and content-based filtering (Python: Pandas, Scikit-learn), achieving a measurable improvement in simulated click-through rate.
- Implemented the system using Python and relevant libraries, demonstrating proficiency in core machine learning techniques and data manipulation.
- Explored advanced techniques like Neural Collaborative Filtering (TensorFlow/PyTorch), showing initiative to learn beyond basic methods.

AI-powered Email Classifier

- Built an email priority classifier (High/Medium/Low) using NLP techniques (Python: NLTK, spaCy) and machine learning, achieving high precision on a test dataset.
- Implemented text preprocessing, feature extraction (TF-IDF, word embeddings), and a classification model.
- Demonstrated understanding of natural language processing and machine learning principles through successful model implementation and evaluation.

IPL Player Performance Analysis

- Developed an interactive dashboard (Power BI) and a predictive model (Python: Pandas, Scikit-learn) to analyze IPL player performance data.
- Performed data cleaning, feature engineering, and exploratory data analysis (EDA) to extract meaningful insights from the dataset.
- Implemented regression or clustering models to predict player performance, demonstrating an understanding of statistical modeling techniques.

CERTIFICATIONS

- IBM AI Developer Specialization - IBM
- Google Data Analytics Specialization - Google
- Google Advanced Data Analytics Specialization - Google
- Oracle Cloud Infrastructure 2024 Generative AI Certified Professional - Oracle
- MongoDB Developer's Toolkit: CRUD Mastery with Node.js, Java, Python, C

TECHNICAL SKILLS

Languages: Python, C/C++, SQL, R.

Frameworks: Flask, FastAPI.

Developer Tools: Git, Docker, Google Cloud Platform (GCP), Oracle Cloud Infrastructure (OCI), VS Code, PyCharm.

Libraries: Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, TensorFlow, Keras, PyTorch, NLTK, spaCy.

Data Analytics & Visualization: Power BI, Tableau, Google Looker Studio.

Data Structures & Algorithms: Arrays, Strings, Linked Lists, Stacks, Queues, Recursion, Backtracking, Binary Search, Bit Manipulation, Hashing, Trees, Heaps, Graphs, Dynamic Programming, Segment Trees.