Amit Sahu

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Summary

I am a self-taught **python developer** with keen interest in **machine learning**, **deep learning**, **data science**, **data analytics** and **data engineering**. I am an IT fresher looking for jobs and internships in the mentioned domain to learn and assist in the best way possible.

Education

2019 - 2023 *B.E. Information Technology*, **D.Y. Patil College of Engineering (Pune University)** ***(GPA: 8.9)***
2016 - 2017 *Higher Secondary School(CBSE)*, **Kendriya Vidyalaya Jamuna Colliery** ***(Percentage: 91.8)***
2014 - 2015 *Senior Secondary School(CBSE)*, **Kendriya Vidyalaya Jamuna Colliery** ***(CGPA: 9.4)***

Projects

Portfolio Website | *bootstrap, html, css, scss, flask, python, Git, Github* | Link

- A fully functional personal website for showcasing my skills.
- The website is built using **bootstrap template** as base and using **flask framework**.

Blogging Website | *bootstrap, html, css, flask, python, Git, Github, render.com, sqllite, postgresql* | Link

- A **secured blogging website**, where multiple users can login and post blog and **only admin can modify** the posts.
- It also has working **contact me** section as well.

Image Classifier | *python, cnn, sklearn, tensorflow, keras, pandas, numpy, matplotlib, Github* | Link

- Image classification between cats and dogs using **Convolution Neural Network (CNN)**.
- CNNs are generally used for **feature extraction and classfication**.

Churn Modelling | *python, ann, sklearn, tensorflow, keras, pandas, numpy, matplotlib, Github* | Link

- **Churn prediction** involves identifying at-risk customers who are likely to cancel their subscriptions or close/abandon their accounts or similar kind of situation.
- **ANNs** are designed to mimic human brain .

Sentiment Analysis | *python, nltk, sklearn, pandas, numpy, matplotlib, Github* | Link

- The model analyzes digital text to determine if the emotional tone of the message is positive, negative using **Natural language processing**.
- **Box of words** is used to design the model

Ads Optimization | *python, pandas, reinforcement learning, numpy, matplotlib, Github* | Link

- A model build to identify the most optimum ad out of a number of ads.
- The model uses **Reinforcement learning** to solve this selection problem.

Market Basket Optimsation | *python, apriori, pandas, numpy, matplotlib, Github* | Link

- The model utilizes data-driven insights, analytics, and machine learning to enhance product recommendations, cross-selling, and product placement .
- The model uses **apriori algorithm**, a type of **association learning**.

Clustering Mall Customers | *python, clustering, pandas, scipy, numpy, matplotlib, Github* | Link

- A model that is based on the age, salary and expenditure score to form different groups using **clustering algorithms** and provide insights.
- Service providers give offers/discounts according to those groups.

Breast Cancer prediction | *python, decision tree classifier, sklearn, pandas, numpy, matplotlib, Github* | Link

- A model to predict weather a given patient has benign or malignant tumor.
- .Multiple models are build and tested and the most optimum one is chosen, for this model **decision tree classifier** is used.

Property Finder | *python, apis, beautifulsoup, selenium, requests, Github* | Link

- A **webscraping** project that scrapes a website for data using **beautifulsoup**.
- **Selenium** is further used to **automate** and aid in scarping to find the properties according to the requirement.

Technical Skills

- **Programming languages :** Python, R(machine learning), C++(Basics), Java(Basics).
- **Libraries and tools :** Pandas, NumPy, SciPy, Matplotlib, Plotly, Scikit-learn, Tensorflow, Keras, Selenium, BeautifulSoup.
- **Web Technologies and frameworks :** HTML, CSS, Bootstrap, Flask, Jinja, Django.
- **Deployement and version control :** Git, Github, Netlify, Vercel, Render, Pythonanywhere.
- **Databases:** MySql, SQL, Postgresql.
- **Tools and IDEs :** PowerBi, Excel, Tableau, Postman,HttpToolKit Vscode, Pycharm, Jupyter, Anaconda, Google Collab.
- **Learning in process skills :** Docker, Kubernetes, Amazon Web Services,GenAI and LLMs, MongoDB

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