

# SAGAR BISWAS

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## EXPERIENCE

### Data Science Intern, Adhyayan

May 2025 - Nov2025

- Developed and deployed a Social Anxiety Predictor using **Linear Regression and Flask**, achieving a **model accuracy of 92%** and reducing manual assessment time, contributing to an overall improvement in the efficiency of preliminary mental health screenings.
- Engineered a **Gen AI-powered Trip Planner** that streamlined travel itinerary creation, facilitating the instant generation of personalized plans based on user prompts and increasing user engagement with the automated planning tool by **35%**.

### Python Developer Intern, Hyper Steller Technology

July 2023 – Aug 2023

- Developed and **deployed a chatbot** solution for a high-traffic website, enhancing user engagement by 40% and reducing customer service response times by **60%**, **contributing** to an overall improvement in user satisfaction scores from **75% to 90%**.
- Engineered an automated QR code generator that streamlined promotional campaigns, facilitating the creation of over 500 unique codes within a week and increasing **event attendance by 30%**.

## TECHNICAL SKILLS

- Programming:** Python (Pandas, NumPy, Matplotlib, Sci-kit learn), Flask, AI-ML, Prompt Engineering, SQL
- Data Analysis & Visualization:** Data Cleaning, Pre-processing, Exploratory Data Analysis (EDA), ETL Pipeline
- Statistical Analysis:** Statistics (Mean, Median, Mode, Standard Deviation)
- Tools:** MS Excel, Jupyter Notebook, Google Colab, Anaconda, AWS
- Soft Skills:** Team Collaboration, Communication, Critical Thinking, Problem-Solving

## ACADEMIC PROJECTS

### Personality Trait Classifier

**Key Skills:** Machine Learning, Decision Trees, Python, Flask, HTML/CSS, Bootstrap, Model Deployment

Developed a machine-learning web application that predicts an individual's personality trait based on user-provided behavioral inputs.

Implemented a Decision Tree Classifier for interpretable predictions and deployed the model using Flask on PythonAnywhere. Built a clean UI with HTML/CSS and Bootstrap and integrated model inference into a seamless web workflow.

**Live:** <https://amitbiswas112.pythonanywhere.com/> | **Source:** <https://github.com/sagarbiswas112/Personality-Trait-Classifier>

### Social Anxiety Predictor

**Key Skills:** Logistic Regression, Data Preprocessing, Python, Flask, UI Design, Model Deployment

Created a predictive system that estimates the likelihood of social anxiety using a Logistic Regression model trained on survey-based psychological indicators. Designed a simple and user-friendly interface to collect inputs and display predictions, and deployed the entire solution using PythonAnywhere.

**Live:** <https://sagarbiswas112.pythonanywhere.com/> | **Source code:** <https://github.com/sagarbiswas112/Social-Anxiety-Predictor>

### Gen-AI Trip Planner

**Key Skills:** Generative AI, Gemini API, Python, Flask, Prompt Engineering, Web Development

Built an AI-powered trip planning assistant using **Google Gemini API**, capable of generating personalized travel itineraries, budget estimates, and recommendations. Developed the full-stack solution with a modern interface and integrated real-time AI generation through API calls. Hosted the application using Flask.

**Live:** <https://biswassagar112.pythonanywhere.com/> | **Source code:** <https://github.com/sagarbiswas112/Gen-AI-Trip-Planner>

## EDUCATION

- B.E. Computer Engineering** | Chhatrapati Shivaji Maharaj Institute of Technology, Panvel  
CGPA: 7.75 /10  
Graduated - July 2024
- DIPLOMA Computer Engineering** | A.C. Patil college of Engineering, Kharghar  
GPA: 89.14%  
Aug 2019 – Aug 2021

## CERTIFICATIONS

### Data Science Certification

May 2025 – Nov 2025

- Currently pursuing a comprehensive Data Science program, building strong foundations in **data analysis, visualization, machine learning, and statistics**.
- Gaining practical exposure to **Python, SQL, NumPy, Pandas, Matplotlib, Sci-kit learn, Flask**, and **data-driven problem solving**, preparing to apply advanced analytics for real-world business solutions.

### Google Generative AI Certifications | Google Cloud

Jun 2025 – Jul 2025

- Achieved multiple **skill badges in Generative AI, Vertex AI Gemini, Streamlit, and Imagen**, gaining hands-on expertise in **prompt engineering, RAG, multimodal prompting, and AI application development** on Google Cloud.
- Strengthened technical skills in **Python, PostgreSQL, and GCP**, applying Gemini APIs and Imagen models to build **real-world AI solutions** with scalability and innovation.