SHIVANI ANAND

# Technical Skills

**Languages and DataBases**: Python, Django, Flask, FastAPI, REST, OOPS, Docker, Bash, SQL, PostgreSQL, OracleSQL, MongoDB, Automation, GCP (Google Cloud Platform), Cloud DataFlow, BigQuery, Cloud Run, AppEngine, Cloud Build, Cloud Functions, SQL, Gemini

**Data Analysis**: PySpark, OpenAI, OpenCV, Vertex AI, Generative AI, Machine Learning, Prompt Engineering, ML-Ops, Looker Studio

**Other Skills**: Git, GitHub, GitLab, Jira, Confluence, Business Analysis, Cost Optimization, Customer Acquisition

# Experience/Projects

## Persistent Systems October 2023 – Present

### Senior Software Engineer Bengaluru, India

* Trained ML models for **drug discovery using Predictive AI**, resulting in accurate drug-target predictions for research.
* Deployed **Pycaret**-based regression, classification, and clustering models on GCP, optimizing parameter selection for customized predictions.
* Developed **context-sensitive data detection** with Langchain and Palm API, enhancing data security and compliance by 25%.
* Generated SQL queries using **Vertex AI embeddings from natural language**, streamlining data retrieval processes.
* Designed and deployed **GenAi chemical foundation models** (ChemBerta), integrating predictions into **Python-based UI workflows**.
* Created and deployed **Flask-based APIs** for all ML models, increasing platform integration efficiency by 50% and enabling real-time predictions.

## Persistent Systems September 2022 – September 2023

### Software Engineer Bengaluru, India

* Created and deployed an **image classification** ML model in **Vertex AI and AutoML**, incorporating explanations using Example-based API and Auto-ML for improved model interpretability.
* Performed **data ingestion and analysis using BigQuery and Python**, optimizing data processing and analysis efficiency.
* Conducted **sentiment analysis** on user reviews using OpenAI’s GPT-3 API and prompt engineering, enhancing customer insights and feedback understanding.
* Deployed a Streamlit application on GCP Cloud Run and App Engine, **improving app scalability and performance by 40%**.

## MediaAgility February 2022 – August 2022

### Associate Software Engineer Bengaluru, India

* Created an **ETL pipeline using Apache Beam and Cloud Dataflow**, streamlining data processing and reducing pipeline execution time by 30%.
* Designed Selenium-based web scraping solutions with Cloud Functions in Python, **automating data extraction** and increasing efficiency by 40%.
* Analyzed business requirements and performed **OCR extraction** using DocAi, EDA, and data cleaning in Python, improving data accuracy for analysis.
* Built an **analytics dashboard** using Data Studio and Looker, delivering real-time insights and reducing decision-making time by 25%.

## WhiteHat EdTech August 2020 – January 2022

### Python/ML Consultant Bengaluru, India

* Built and deployed multiple linear regression and logistic regression models for car **price prediction and lead scoring**, improving prediction accuracy by 20%.
* Conducted **bank loan defaulter prediction and analysis**, enhancing risk assessment capabilities.

# Personal Projects/Awards & Achievements

**Uniform Compliance Verification System** *| Python, Machine Learning* **June 2023 - August 2023**

* Developed an ML algorithm for "Helmet & T-Shirt Detection" using **face detection and image classification** techniques to verify if delivery personnel were wearing the correct company helmet and t-shirt, **improving uniform compliance by 70%.**
* Implemented **real-time image processing** with OpenCV and pre-trained models to detect facial features and match them with company-specific uniforms, automating the verification process and **reducing manual checks by 80%**.

# Certifications

* [Google Cloud Certified Professional Machine Learning Engineer](https://www.credly.com/badges/e857ee54-4e17-49ad-9d53-c40f4896dea5/public_url) ● [Google Cloud Certified Professional Data Engineer](https://www.credly.com/badges/35db2597-0196-4413-9795-0a61db66b607/public_url)
* [Google Cloud Certified Professional Cloud Architect](https://www.credly.com/badges/18d903bc-90d4-4834-b7c5-641c95d122c2/public_url) ● [Google Cloud Certified Professional Cloud Database Engineer](https://www.credly.com/badges/cd5d0b17-3c13-448c-b958-5674c89b3b38/public_url)
* [Google Cloud Certified Associate Cloud Engineer](https://www.credential.net/8eec9202-9eeb-4cb9-959f-9e55230ff0bf) ● [Google Cloud Certified Cloud Digital Leader](https://www.credly.com/badges/2df5a931-6f5e-4ba2-b0a3-65c870ac41a5)
* [Microsoft Certified Azure Data Fundamentals](https://www.credly.com/badges/bf6fb6cb-de42-4eeb-a7ca-281bbafde0c8) ● Certification in EDA, Machine learning, Tableau ● Data Lakes for Big Data- EMC2

# Education

* Post Graduate Diploma in Data Science - IIIT, Bangalore ● M.E. in Software Engineering - BIT, Mesra ● B.E. in Information Technology - Pune University