

# SHUBHAM PATHAK

Data Analyst

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## SKILLS

**Languages & Frameworks:** Python, SQL, HTML, CSS, JS, FastAPI, Flask, Docker

**Tools & Libraries:** Pandas, NumPy, Matplotlib, Selenium, Power BI, Tableau, OpenCV, Apache Spark, Apache Airflow, Linux

**Cloud:** AWS EC2, RDS, S3

**Database:** MySQL, PostgreSQL, MongoDB

## EXPERIENCE

**Data Analyst – Solar Ladder (Mumbai, Maharashtra)**

*May 2024 - Present*

- Developed and maintained web scraping scripts to automate data extraction from various inverter brand login portals, capturing daily and lifetime energy generation metrics.
- Built and scheduled ETL pipelines to extract data from third-party APIs, transform it into structured JSON format, and ingest it into the internal analytics system.
- Designed and deployed interactive dashboards in Tableau and Power BI to provide actionable insights and performance analytics to customers and internal stakeholders.
- Worked closely with customers to understand their reporting needs, provided personalized data solutions, and helped them interpret analytics to optimize solar energy performance driving customer satisfaction and retention.

**Data Analyst Intern – Solar Ladder (Mumbai, Maharashtra)**

*Nov 2023 - Apr 2024*

- Extracted and processed raw financial data from ScoreMe (Bank Statement Analysis Tool) for further analysis.
- Performed data cleansing and preprocessing using Python (pandas) and Excel for analysis.
- Designed and maintained interactive Tableau dashboards and reports to visualize trends and KPIs.
- Created data visualizations using filters, parameters, and calculated fields to provide dynamic insights.
- Presented analytical findings and dashboards to stakeholders, translating complex data into actionable business strategies.

## EDUCATION

**ITM Group of Institution, Gwalior, MP | Bachelor of Technology (B.Tech) in Information Technology** *August 2018 – May 2022*

**KD Vidya Vihar, Gwalior, MP | Higher Secondary Certificate (Physics, Chemistry, Mathematics)**

**Rishikul Vidya Niketan, Gwalior, MP | Secondary School Certificate**

## PROJECTS

**Virtual Desktop Voice Assistant | Python pytsx3, SpeechRecognition, Wikipedia, Webbrowser, pyautogui, smtplib, datetime, speedtest**

**A smart desktop assistant built using Python that understands natural language through voice commands and performs various automated tasks for the user.**

- Developed a Python-based desktop assistant capable of understanding natural language via voice commands to automate system tasks and retrieve online information.
- Integrated libraries such as pytsx3, SpeechRecognition, Wikipedia, Webbrowser, and pyautogui to enable functionalities like searching the web, sending emails, checking internet speed, and opening applications.
- Improved user interaction through voice-driven automation for daily tasks, enhancing hands-free productivity and desktop usability.

**Color Identification in Images | Python – OpenCV, Pandas**

**A computer vision project to detect and identify dominant colors in images along with their RGB values for analytical and design purposes.**

- Developed a Python application to identify and extract dominant colors from images along with their respective RGB values.
- Utilized OpenCV for image processing and pandas for organizing and analyzing color data.
- Enabled accurate color detection for use cases in design, quality control, and image analysis.

### **Automated File Analyzer | Python - smtplib, datetime, glob, os**

**A Python automation tool that counts lines in text files and automatically sends the results via email with an output attachment.**

- Created a script to scan and count lines across multiple files using modules like glob and os, generating a structured output report.
- Automated email delivery of the output file using smtplib, allowing seamless report sharing via email.
- Integrated datetime for timestamping reports, improving traceability and scheduling.

### **Full Stack Job Portal | HTML, CSS, JavaScript, Tailwind CSS, Python, FastAPI, PostgreSQL**

**A web application where users can register, log in, explore job listings, edit their profiles, and manage account settings - including email verification and secure authentication.**

- Designed and developed a responsive frontend using HTML, CSS, JavaScript, and Tailwind CSS for a modern, user-friendly interface.
- Built backend APIs using FastAPI to handle user authentication, job data, profile updates, and email verification workflows.
- Integrated PostgreSQL for persistent data storage and managed secure features like password change, profile picture updates, and user preferences.

### **ACHIEVEMENTS**

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- **2nd Prize Winner**, *KRONOS Techno-Cultural Fest*, [ITM GOI]

### **INTERESTS**

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- **Data Engineering**
- **Artificial Intelligence**
- **Machine Learning**
- **Web Development**
- **Finance**
- **Cricket**
- **E-Gaming**