CHHOTU VERMA
Technology Consultant

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JOB OBJECTIVE

Targeting opportunities in **Data Analysis and Python Development** within the **Technology Domain of** Finance, Banking and FMCG industry, open for opportunities based in **Bangalore.**

ACADEMIC DETAILS

- **Diploma in Computer science and engineering**

CERTIFICATION

- PG Diploma Certification on Data Science from **I-Neuron**

CORE COMPETENCIES

- Data Analysis & Visualization
- Python Programming & Scripting
- ETL & Data Pipeline Development
- GenAI
- Automation & Process Optimization
- Exploratory Data Analysis (EDA)
- Machine Learning & Predictive Analytics
- SQL & Database Management
- Financial & Tax Analytics
- Business Intelligence & Reporting

IT SKILLS

- **Languages:** Python, SQL, Shell Script, Excel (VBA), JavaScript, TypeScript, Angular, Socket Programming
- **Frameworks & Libraries:** Pandas, NumPy, PyQt5, Streamlit, Tkinter, PIL, Matplotlib, Seaborn, scikit-learn, OpenCV, BeautifulSoup, NLP (spaCy, NLTK), Flask, FastAPI
- **APIs & Services:** Microsoft Graph API, Azure OpenAI, REST API, OpenAI API
- **Databases & Data Storage:** MySQL, SQLite, SharePoint, Excel, CSV, JSON
- **Tools:** Power BI, Jupyter Notebook, Windows Task Scheduler, PyCharm, VS Code, Postman, GitHub

PROFILE SUMMARY

- **Technology Consultant at EY** with 4.5 years of experience in **Data Analysis, Python Development & Financial Data Automation.**
- Skilled in **Data Extraction and Statistical Analysis**, optimizing financial and tax analytics by extracting insights from structured and unstructured data.
- Proficient in **Python Programming and Scripting**, automating data processing and reducing manual effort for enhanced accuracy and efficiency.
- Successfully completed the **EY Data Science Challenge** held globally, showcasing expertise in predictive analytics and data engineering.
- Experienced in **Database Management** with MySQL and SQL, building robust ETL pipelines to ensure seamless data flow for reporting and analysis.
- Expertise in **Financial Data Processing Automation**, using Pandas, NumPy, and Streamlit to streamline complex data management tasks and reduce processing times.

CAREER HIGHLIGHTS

- Recognized multiple times with the **Extraordinaire Award** by the National Tax Leader at **EY** for exceptional performance.
- Consistently awarded **Kudos** at **EY** for outstanding contributions to projects and teamwork.
- Successfully **completed the global EY Data Science Challenge**, showcasing advanced analytical and problem-solving skills.

WORK EXPERIENCE

Consultant | EY LLP | Feb'22 - Present

Responsibilities:

- **Developing** data-driven solutions for **financial& taxanalytics**, optimizing reporting efficiency & accuracy.
- **Mentoring** junior team members and overseeing client relationships for multiple projects.
- **Designing and implementing Python-based automation scripts** to enhance data processing and reduce manual effort.
- **Conducting exploratory data analysis (EDA)** to derive actionable insights for clients in the **finance and banking** sectors.
- **Collaborating** with cross-functional teams to deliver **data visualization dashboards**, improving stakeholder decision-making.
- **Participating** in the **EY Global Data Science Challenge**, applying advanced analytical techniques to real-world business problems.

Projects Undertaken:

- **Enterprise-Grade Email Automation for DigiGST:** Developed a high-efficiency email automation system leveraging Microsoft Graph API to eliminate manual email handling. Enabled real-time response tracking and auto-updated trackers, significantly enhancing operational efficiency. **Technologies: Python, Excel, Graph API, Outlook, SharePoint**

- **Intelligent PDF Data Extraction & Processing:** Devised an advanced OCR-powered data extraction framework to capture and structure unstructured information from digital and scanned invoices. Integrated QR code decoding for precise validation and cross-referencing **Technologies: Python, OpenCV, Excel, NLP**

- **AI-Powered DigiGST Automation Framework (Generic Solution) :** Built a scalable, AI-driven DigiGST automation framework supporting Inward and Outward GST reconciliation workflows across multiple clients.

- **Automation & Testing Tools:** ITEES, PATS++, Selenium, PyAutoGUI
- **Other Technologies:** OCR
- **Version Control:** Git, GitHub
- **LLM & Agentic AI Technologies :** Ollama, LangChain, LangGraph, CrewAI, OpenAI GPT Models (via API & Azure), Agentic workflows with multi-agent collaboration, Prompt engineering and memory management.
- **AI/ML & NLP Tools:** Hugging Face Transformers, Sentence Transformers (semantic similarity & word matching), Named Entity Recognition (NER), Text Summarization, Embedding Models, Word Embedding Models (BERT, Word2Vec) Custom LLM pipelines and knowledge-based Q&A.

SOFT SKILLS

- Adaptability
- Communication
- Team Leadership
- Analytical Thinking
- Problem Solving

PERSONAL DETAILS

DOB: 21st March, 1999

Languages Known: English , Hindi

- **End-to-End Financial Data Automation:** Led the innovation of multiple automation tools for financial data management, leveraging Pandas, NumPy & Streamlit to optimize data processing, minimize errors, & accelerate decision-making.
  Technologies: Python, Excel, VBA, MySQL, OpenAI

- **Aerobot Automation :** Led the development of *Aerobot*, an AI-powered automation solution designed to track missed input tax credits due to inefficiencies in airline travel expense reconciliation. The solution addressed challenges from manual invoice collation and ERP system limitations, leveraging Generative OpenAI to fully automate the process. *Success Story:* Enabled a leading IT company to unlock ₹**16 crore** annually in GST credits through the automation of tax reconciliation tasks.
  Technologies: Python, OpenAI, ERP, Generative AI, Automation, OCR

- **Enabled AI-based column mapping using sentence embeddings via Ollama, achieving over 90% accuracy in auto-matching ERP and DigiGST columns.**

- **Developed a Streamlit-based UI for client onboarding and interactive column mapping, improving adoption and usability.**

- **Designed an Excel-driven, dynamic processing engine for multi-entity workflows (factory, warehouse, etc.) with reusable business logic.**

- **Automated validations, blank logic handling, and output template generation, reducing manual effort by more than 80%.**

IS Infotech Pvt. Ltd | Bangalore, KA

Work as a Python Developer At ADE (client), DRDO (Feb'14 – Feb'14 – 2022)

Project : RUSTOM II
Rustom -2 is an unnamed air vehicle (UAV) Developed by the Defence Research and Development Organiza on for three services Indian Army, Indian Navy, Indian Air Force (IAF).

Responsibilities:
- Developed and managed databases and PPF (Parts Plan Files) for various LRUs (Line Replacement Units) such as AED (Airborne Encoder Decoder), RFCC (Rustom Flight Control Computer), PMU (Power Management Unit), EIU (Engine Interface Unit), and MPC (Model Predictive Control) using the SID application. Created checksum script for LRU units using python language.

- Automated checksum validation scripts for LRU units using Python.

- Created TPF (Test Plan Files) and executed automation testing through the ITEES application.

- Performed manual (black-box) testing using the PATS++ software tool.

- Actively contributed to technical documentation and reporting.