Suyash Sharma

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SUMMARY

Meticulous computer science engineer and data enthusiast with 3.5+ years of experience and an analytical mindset. Technophile and passionate with a get-it-done approach. Dedicated to achieving demanding development objectives according to tight schedules while producing impeccable code. Experienced in working with governments, freelancing, as well as startups, demonstrating adaptability and versatility in various work environments.

EXPERIENCE

Artivatic AI Labs Pvt. Ltd. - Indore, Madhya Pradesh   **May 2024 – Present**
Data Scientist

Ausis Health & Life (Product):

- Developed a **term insurance underwriting prediction model** for ABSLI, improving accuracy by **36%** and enhancing explainability.
- Reduced **manual underwriting efforts by 60%**, achieving an annual cost saving of **₹6 Cr.**
- Designed and deployed a **claim propensity statistical model** for health insurance, effectively reducing claim rates on accepted profiles.
- Built a **health insurance prediction model** with improved case-level explainability and recall.
- Developed a **claim summarization system** using **Generative AI** with **Retrieval-Augmented Generation (RAG)** for personalized, profile-based responses.
- Optimized and deployed a **Large Language Model (LLM)** for enhanced underwriting explainability.
- Led the training of a **health underwriting decision model**, improving application processing speed and boosting accuracy from **85% to 94%.**
- Utilized **SHAP (SHapley Additive exPlanations)** for record-wise feature importance, enhancing model interpretability.
- Implemented **PaddlePaddle** and **AWS Tesseract OCR** for extracting data from digital health reports and structured storage using **Llama 2**.

Finance Department, Government of Andhra Pradesh - Amravati, Andhra Pradesh   **Aug 2023 – May 2024**
Data Analyst & Machine Learning Engineer

Project Lead: Commercial Taxes Data Analytics Unit (DAU)

- Collaborated closely with **Finance Secretary**, **Special Chief Secretary**, and **Chief Commissioner** of Commercial Taxes of the Government of Andhra Pradesh to ensure alignment with strategic goals and objectives.
- Utilized **statistical** methodologies to analyze datasets and identify outliers.
- Developed interactive dashboards using **Power BI** for data visualization.
- Used **data modeling** techniques to detect Non-Genuine Taxpayers and enhance new registered TPs Surveillance.
- Spearheaded and directed projects involving sectoral, top taxpayers' and E-way bill analysis.
- Successfully identified instances of **Circular Trading** of bills, contributing to improved tax collection processes.
- Conducted in-depth analysis to comprehend the sales and GST contribution ratio at both sector and TP levels.
- Extracted data from a **SQL Server** deployed on a government server for analysis and processing.

Excise Duty Department

- Played a key role in working with **Liquor Excise data** for Non-Duty Paid Liquor (NDPL) & Illicit Distilled (ID) delivering descriptive analysis and developing interactive dashboards for data visualization.

Auriga IT Consulting Pvt. Ltd.- Jaipur, Rajasthan   **Oct 2021 – Aug 2023**
Associate Software Engineer

GSWS (Onsite Vijayawada- Government of Andhra Pradesh)

- Collaborating with the stakeholders of Andhra Pradesh Govt. and implemented data driven solutions on the data of **4.89 Cr** people, saving **Rs. 72 Cr** per year using advanced data visualization.
- Conducted financial implication analysis of 10+ schemes using data analytics to drive policy decisions.

- Created Pipeline for electoral **pdf data conversion to structured Table** for voter de-duplication using **PyPDF** and **cosine similarity** of String.
- Created customized dashboards for **Chief Ministers Office** using advance **tableau** for efficient decision making resulting in Rs. 120 Crores saving for the government.
- Minimized **10% of inclusion** and **8% exclusion** errors in the scheme delivery program of 20+ schemes within 10 months.
- Developed automated processes for **MIS report** generation resulting in a **70% increase** in process efficiency.
- Extracted data from **Oracle DB** deployed on a government server for analysis and processing.

Question Answering Document based Chatbot (Proof of Concept in house)

- Created **NLP**-based **Chatbot** proof of concept for innovative new solutions.
- Integrated a comprehensive knowledge base into a **RASA** chatbot using state-of-the-art models from **Hugging Face** and leveraging the **Deepset Haystack framework**.

Vehicle Speed Detection System (NHAI)

- Trained **YoloV5** models for automatic number plate recognition and used **PaddleOCR**.
- Consumed data coming from Radar (hardware devices) by implementing **hexadecimal** coding in **C++**.

Larsen & Toubro Infotech (LTI) - Remote- Bengaluru, Karnataka   June 2021 - Aug 2021
Data Analyst Intern

- Developed chatbot for internal purpose of company which is used by 1000+ employees in Larsen & Toubro Infotech using Pandas and Tkinter.

EDUCATION

Poornima Institute of Engineering & Technology, Jaipur   Aug 2018 - Aug 2022
Bachelor of Technology (B. Tech.) in Computer Science and Engineering
• RTU Kota, Aggregate CGPA – 8.5

Lions Convent H. S. School, Sendhwa   Mar 2016 - Mar 2017
Higher Secondary Education: PCM
• CBSE, Academic Score - 70%

ACCOMPLISHMENTS

- **Winner of the Techathon** organized by Auriga IT where prototype a system for fabric industry to identify the types of defects and location of that defect.
- Recognized with **"Star of the Month"** Award by Auriga IT.
- Recognized with **"Client's Favorite"** Award by Auriga IT.

SKILLS

- **Programming and Frameworks:** Python, TensorFlow, Pytorch, Keras, Object-Oriented Programming (OOP), Deepset Haystack, RASA.
- **Data Visualization:** Matplotlib, Plotly, Tableau, Power BI
- **Machine Learning & Deep Learning models:** Treebased, CNN, YoloV5, Hugging Face models, PaddleOCR.
- **Natural Language Programming (NLP):** BERT,MistralAI, Llama 2, GPT3.5 & 4o, Lang Chain
- **Statistical Analysis:** Z-test, Chi-square test, detecting outliers using IQR and 2σ Standard Deviation approach.
- **Version Control:** Git, Bitbucket
- **Database:** MySQL, Oracle DB, SQL Server, PostgreSQL
- **Containerization:** Docker
- **Additional Languages:** C++

ADDITIONAL

- Competencies: Leadership, Adaptability, Optimization, Troubleshooting, Continuous Learning
- Hackerrank: https://www.hackerrank.com/profile/suyash22198
- Language Skills: English (Professional), Hindi (Native)
- Hobbies: Sketching, Playing Table Tennis, Public Interaction