

# Saurabh Singh

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## Work Experience

### Software Developer/Analyst

#### Dectwin Services Ltd.

Remote 04/2023 - 10/2023

- Led the designing and development of multiple enterprise-level microservice applications for the Commerce Experience Group, contributing to substantial **revenue growth every quarter**.
- **Implemented scalable APIs** and background workers for managing analysis and reports forming for the Sales, Purchase, Expenses while increasing reports **efficiency by 60%**.
- Implemented Recommended System using advanced Large Language Model and Machine Learning Algorithm.

## Projects

### [Deployment Link.](#)

#### MultiClass Object Detection

05/2023 - 06/2023

- Designed & implemented a multi-class object detection model using YoloV8, achieving an avg precision of 95% on a dataset of 100k images.
- Achieved 95% detection accuracy, improving system reliability by 20% and reducing training time by 40%, optimizing resource usage.
- Utilized transfer learning to leverage pre-trained weights, reducing training time by 70% and improving model accuracy by 12%.

### [Deployment Link.](#)

#### ATS Resume Checker

05/2023 - 05/2023

- This AI application scores resumes against job descriptions, keyword **match for better Applicant Tracking System (ATS)** performance.
- Uses Python (Streamlit), **Hugging Face's models & LLM (Gemini-Pro)** for a seamless resume analysis platform.
- Delivers concrete results with scores and percentage matching, guiding users to **improve resumes for a 60% increase** in success rates in applicant tracking systems.

### [Deployment Link.](#)

#### Adenocarcinoma Classification (CI/CD)

01/2023 - 02/2024

- Developed modular code for a Chest Cancer Classification model, integrating MLFlow, DVC, and DagsHub for tracking, version control, and real-time monitoring, **achieving a 94.7% accuracy rate**.
- Established a **streamlined CI/CD pipeline** for MLFlow, enhancing development efficiency and **ensuring continuous deployment** of the classification model.
- **Deployed the model on AWS** and Docker, with a user-friendly Streamlit interface for accessible and interactive visualization.

### [Deployment Link.](#)

#### eCommerce Sales Analysis

12/2023 - 01/2023

- Build a detailed analysis dashboard on the E-Commerce Sales Dataset using **PowerBI and SQL** for data fetching and processing.
- Engineered an intuitive PowerBI dashboard, transforming raw eCommerce sales data into visually compelling insights, **driving a 20% improvement** in decision-making efficiency.
- Identified and monitored key performance indicators (**KPIs**), uncovering trends and patterns critical for **gaining a 10% improvement** in operational efficiency and **overall business success**.

## Skills

- Python | SQL | NoSQL | Flask | NumPy | Pandas | Tableau | Power BI | MS Excel | Git | Data Visualization | MongoDB
- Machine Learning Algorithms | Statistics | Deep Learning | Seaborn | RestFul APIs | TensorFlow | NLP | Generative AI
- AWS cloud | MLFlow | MLOps | CI/CD | Docker | Large Language Model (LLM) | Data Structures and algorithms.

## Education

### Bachelor of Technology

#### RGPV University

Bhopal, MP, India 08/2019 - 06/2023

- Major in Computer Science & Engineering

8.87 CGPA

## Certifications

- Data Analytics & Science by Pierian Data • TensorFlow Developer by ZTM Academy

## SoftSkills

- Attention to detail • Problem Solving • Communication Skills • Adaptability • Team player • Self-motivated

## Interests

- LLM's • ML • MLOps • Data Analysis • Data Science

## Acheivements

- **Runner-up** in the Smart India Hackathon - 22 for the Violence Activity Detection Model (Runner Up).
- Played **Regional Level Football** Under-14 and Under-17 and Won the **Golden Boot For Most Goal Scorer in Under-14**.