

# Saurabh Singh

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## Professional Experience

### Jr. Data Scientist

KPMG

Bangalore 07/2023 - Current

- Led the development of an innovative predictive analytics tool, enhancing data accuracy by 25% and significantly improving the efficiency.
- Designed and implemented scalable data pipelines, reducing data processing latency by 35%. Collaborated with DevOps and IT teams to create a robust and secure deployment environment.
- Engineered and deployed machine learning models with a strategic emphasis on real-world applications.
- Played a key role in designing and implementing scalable data pipelines, reducing latency in data processing by 35%, thus contributing to the overall efficiency and responsiveness of the data infrastructure.

### Data Analyst/ML Developer

Dectwin Services Ltd.

Remote 04/2023 - 09/2023

- Led the design and development of multiple enterprise-level microservice applications of Commerce Experience Group, driving ₹150 Thousands of revenue every quarter of year using the latest technologies of Flutter, dart, TensorFlow Lite, Large Language Model(LLM).
- Designed and implemented scalable APIs and background workers for managing analysis and reports forming for the Sales, Purchase, Expenses while increasing report efficiency by 60%.
- Implemented Recommender Systems using advanced Large Language Model and Machine Learning Algorithm.

### TensorFlow Developer

ZTM Academy

Remote 08/2021 - 01/2022

- Create a Skimlit model of RTC papers consisting of 200k labeled Randomized Control Trial (RTC) abstracts with better accuracy.
- Designed and developed violence activity detection by using technologies such as Python, Deep learning, Computer Vision & Flask.
- Used a CNN neural network and LSTM to Design, implement, test, deploy and maintain a model for multi-classification of 101 Food Items with greater accuracy than 89%.

## Projects

[Deployment Link.](#)

MultiClass Object Detection

05/2024 - 06/2024

- Designed & implemented a multi-class object detection model using YoloV8, achieving **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

03/2024 - 04/2024

- 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](#)

Custom GPT Q&A AI-Bot

12/2023 - 02/2024

- Construct a customized GPT model for targeted user domain, optimizing responses to yield **results that boast a 40%** increase in accuracy.
- This AI harnesses the power of the LLaMA model, bolstering its reliability, automation and **outperforming GPT 4** by a fraction of its size.
- This model achieves an **impressive 75% accuracy in TriviaQA**, exceeding the performance of conventional models.

## Skills

- Python | SQL | NoSQL | Flask | Data Analysis | Tableau | Power BI | MS Excel | Pandas | Machine Learning| Deep Learning | Clustering
- Data visualization| Quantitative analysis| OOP | NLP | Decision Trees | Looker | NumPy | Data mining | Big Query | Kubernetes | Terraform
- AWS EC2 | MlFlow | MLOps | Seaborn | CI/CD Pipeline | IaC| Statistics | CNN | IAM |Virtual Private Cloud | Large Language Model (LLM)

## Education

### Bachelor of Technology

RGPV University

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

- Major in Computer Science & Engineering

CGPA : 8.98

## Certifications

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

## Interests

- LLM's • ML • MLOps • Data Analysis • Data Science • Artificial Intelligence • Web APPS • SAAS application