**KIRAN KRUSHNAKANT MUNGEKAR**

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**SUMMARY**

Detail oriented Data Analyst and Data Engineer with 3+ years of experience in delivering high-quality data solutions. Skilled in Python, SQL, ETL, and Data Modeling, with a ability to lead projects from requirements gathering to deployment, optimizing ETL workflows, complex SQL queries, and delivering impactful BI reports, focusing on Business Process Improvement and Stakeholder Communication.

**EXPERIENCE**

Tata Consultancy Services (TCS) | *System Engineer-Data Analyst and Engineer December 2022 - Present*

* Managed and executed **ETL workflows**, ensuring data integrity and timely delivery while automating data pipelines to reduce manual effort by **30%**.
* Developed and optimized **complex SQL queries** and **joins**, supporting business intelligence reporting and decision-making.
* Led **end-to-end project management** for data engineering initiatives, including requirements gathering, data validation, unit testing, and stakeholder communication.
* Created detailed **technical documentation** and implemented **change management processes** to support ongoing operations and future enhancements.

Thinkgestalt.Tech | *Data Analyst December 2020 - August 2022*

* Led the development of **BI reports**, dashboards, and data visualizations, providing insights for business process improvement and the **financial domain**.
* Supported **data modeling**, database design, and ETL processes, Statistical Analysis, **optimizing workflows** and ensuring alignment with business objectives.
* Engaged in **troubleshooting**, problem-solving, and the development of micro-services modules for reliable and efficient application delivery.
* Created REST APIs using Flask and Django, documented technical specifications, and developed impactful reports for **data-driven decision-making**.

**PROJECTS**

**Health and Wellness DIP Framework** | *Tata Consultancy Services (TCS)*

* The Health and Wellness medical domain, where the primary challenge was managing and integrating vast amounts of patient and wellness data from multiple sources.
* Developed scalable applications using Python and PySpark, applying data transformation techniques to ensure data quality and consistency.
* Optimized ETL processes for speed and accuracy, improving decision-making and patient care analysis.
* Leveraged Python, PySpark, PostgreSQL, and AWS S3 to derive insights and enhance healthcare service delivery.

**Automated Trading System** | *Thinkgestalt.Tech*

* An Automated Trading System, addressing the challenge of integrating real-time market data with complex trading algorithms for accurate decision-making.
* Developed Python modules using functional and OOPs concepts for statistical analysis and logic, integrated Plotly for data visualization, and automated trading operations with a Task Scheduler.
* Contributed to the development and deployment of micro-services-based REST APIs using Flask, ensuring efficient data handling and seamless communication between MySQL and MongoDB databases.
* Utilized Python, Flask, REST API, MySQL, MongoDB, Task Scheduler, Micro-services architecture, and Postman for developing, testing, and deploying a scalable and efficient trading bot.

**Lead Generation for Sales** | *Thinkgestalt.Tech*

* The project focused on enhancing lead generation by targeting potential clients on both B2B and B2C levels, with the challenge of efficiently gathering and managing data on prospective clients.
* Developed and implemented a web scraping solution using Python, BeautifulSoup, and Selenium to extract and compile relevant client data from various online sources, addressing the issue of manual data collection.
* The automated data collection process enabled the sales team to efficiently reach out to more potential clients, resulting in a **12%** increase in company revenue by optimizing lead generation efforts.
* Utilized Python, BeautifulSoup, Selenium for web scraping, and MS Excel for organizing and analyzing the collected data, streamlining the sales team's ability to target and connect with potential clients.

**Aqua Drone to Collect Floating Waste** | *Thakur College of Engineering and Technology*

* Developed an **Aqua Drone** prototype aimed at collecting floating waste for **environmental cleaning**, with the challenge of integrating **AI** for accurate waste detection and monitoring.
* Created a **YOLO**-based AI module integrated with a mobile app for real-time control and monitoring of the drone, focusing on improving the accuracy of waste detection by **5%**.
* The **proof of concept** demonstrated the potential to significantly enhance environmental cleanup efforts by automating waste collection, contributing to more efficient and scalable waste management solutions.
* Utilized Python, Flask, REST API, YOLO, Deep Learning, Firebase, Computer Vision, and Raspberry Pi to develop and deploy the embedded system, achieving seamless integration between the AI module and the drone's operational controls.

**Car for Smart Cities - Smart Car** | *St. John College of Engineering and Management*

* Developed a self-driving car prototype for smart cities, addressing the challenge of creating an autonomous vehicle capable of navigating in real-time scenarios.
* Designed and implemented a deep learning module using Convolutional Neural Networks (CNN) to automatically drive the vehicle, achieving an accuracy of 89.72% in real-time conditions.
* The proof of concept demonstrated the feasibility of integrating deep learning and computer vision into autonomous vehicles, paving the way for smarter transportation solutions in urban environments.
* Utilized Python, Deep Learning, Computer Vision, and Raspberry Pi to develop the self-driving car module.

**SKILLS**

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**EDUCATION**

**Thakur College of Engineering and Technology** | *Master of Engineering (M.E.) Mumbai |* ***July 2019 - July 2021***

* **Master's in** **:** *Information Technology – (Data Science)* *CGPA :* ***9.78***
* **Relevant Work** **:** *Python, Flask, Django, Rest API, Machine Learning, Deep Learning.*

**St. John College of Engineering and Technology** | *Bachelor of Engineering (B.E.)* *Mumbai |* ***July 2015 - July 2018***

* **Bachelor's in :** *Information Technology* *CGPA :* ***7.87***
* **Relevant Work :** *Python, Flask, Rest API, Machine Learning, Deep Learning, Firebase, Raspberry Pi.*

**Sardar Vallabhbhai Patel Polytechnic** | *Diploma*  *Mumbai |* ***July 2010 - July 2015***

* **Diploma in** **:** *Information Technology* *Grade :* ***65.74%***
* **Relevant Work :** *Core Java, Embedded C, HTML5, CSS3, MySQL.*

**Utkarsha Vidyalaya** | *SSC* *Maharashtra State Board |* ***March 2010***

* *Grade :* ***72%***

**ACHIEVEMENT**

* Design of an Aqua Drone for Automated Trash Collection from Swimming Pools Using a Deep Learning Framework (**Springer Publication**) | [DOI:10.1007/978-981-19-9225-4\_41](https://link.springer.com/chapter/10.1007/978-981-19-9225-4_41)
* Design & Implementation of Car for Smart Cities - Intelligent Car Prototype (**Springer Publication - Paper Code - 261**) | [DOI:10.1007/978-981-13-3393-4\_50 | Corpus ID: 86439097](https://link.springer.com/chapter/10.1007/978-981-13-3393-4_50)