

# KIRAN KRUSHNAKANT MUNGEKAR

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## SUMMARY

Detail-oriented Data Analyst and Engineer with 3+ years of experience in Python, SQL, ETL, and Data Modeling. Proven ability to lead projects from requirements to deployment, optimize ETL workflows, and deliver impactful BI reports, with a focus on Business Process Improvement and Stakeholder Communication.

## EXPERIENCE

**Tata Consultancy Services (TCS)** | *System Engineer-Data Analyst and Engineer* 12-2022 - Present

- Managed and executed **ETL workflows**, ensuring data integrity and timely delivery while automating data pipelines to reduce manual effort by **80%**.
- 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* 12-2020 - 08-2022

- 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**.

## SKILLS

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|---------------------------------|---|
| • <b>Programming Languages:</b> | Python, SQL, PySpark  |
| • <b>Database:</b>              | MySQL, PostgreSQL, MongoDB, AWS S3  |
| • <b>Data Analysis:</b>         | Pandas, Numpy, Statistical Analysis, Machine Learning, Data Wrangling, Data Cleaning, Data Transformation, Data Normalization |
| • <b>Data Visualization:</b>    | Power BI, Matplotlib, Seaborn, Plotly   |
| • <b>Version Control:</b>       | GitHub, Bitbucket, Jira   |
| • <b>Soft Skill:</b>            | Good Explainer, Problem Solving, Analytical Thinking, Time Management, Cross-functional Teamwork, Stakeholder Communication   |

## 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*

- Automated Trading System** integrating real-time data with complex algorithms for accurate decision-making.
- Developed **Python modules** using functional and OOPs concepts, with Plotly for visualization and Task Scheduler for automation.
- Deployed **micro-services-based REST APIs** using Flask, ensuring efficient data handling and seamless communication between MySQL and MongoDB.
- Utilized **Python, Flask, REST API, MySQL, MongoDB, Task Scheduler**, and **Micro-services** for developing and deploying a scalable trading bot.

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

- Enhanced **lead generation** by efficiently gathering and managing B2B and B2C client data.
- Developed a **web scraping solution** with Python, BeautifulSoup, and Selenium to automate data collection from online sources.
- **Increased revenue by 12%** through optimized lead generation and improved client outreach.
- Utilized **Python, BeautifulSoup, Selenium, and MS Excel** for data scraping, organization, and analysis.

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

- Developed an **Aqua Drone** for automated floating waste collection, integrating AI for accurate detection and monitoring.
- Created a **YOLO-based AI module** with mobile app integration, improving waste detection accuracy by **5%**.
- Enhanced **environmental cleanup** through a scalable, automated waste management solution.
- Utilized **Python, Flask, REST API, YOLO, and Raspberry Pi** for integration of AI and drone operations.

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

- Developed a **self-driving car prototype** for smart cities, enabling real-time autonomous navigation.
- Implemented a **CNN-based deep learning** module for automated driving, achieving **98.72%** accuracy.
- Validated the integration of **deep learning and computer vision** for smarter urban transportation.
- Utilized **Python, Deep Learning, Computer Vision, and Raspberry Pi** for the development of the prototype.

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## EDUCATION

**Thakur College of Engineering and Technology** | *Master of Engineering (M.E.)* *Mumbai* | 07-2019 - 07-2021

- **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* | 07-2015 - 07-2018

- **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* | 07-2010 - 07-2015

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

**Utkarsha Vidyalaya** | *SSC* *Maharashtra State Board* | 03-2010

- **Grade :** *72%*

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## PUBLICATION

- 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://doi.org/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](https://doi.org/10.1007/978-981-13-3393-4_50) | [Corpus ID: 86439097](https://www.springer.com/corpus/86439097)