

KIRAN KRUSHNAKANT MUNGEKAR

mungekarkiran05@gmail.com | +91-8108412112 | Mumbai, India

linkedin.com/in/kirankmungekar | github.com/mungekarkiran

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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|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| • Programming Languages: | Python, SQL, PySpark |
| • Database: | MySQL, PostgreSQL, MongoDB, AWS S3 |
| • Data Analysis: | Pandas, NumPy, Statistical Analysis, Machine Learning, Data Wrangling, Data Cleaning, Data Transformation, Data Normalization |
| • Data Visualization: | Power BI, Alteryx, Matplotlib, Seaborn, Plotly |
| • Version Control: | GitHub, Bitbucket, Jira |
| • Soft Skill: | 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** such as data cleansing and transformation for speed and accuracy, improving decision-making and patient care analysis.
- Leveraged **Python, PySpark, PostgreSQL, Alteryx**, 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 object-oriented programming (OOPs) concepts, with Alteryx, 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, NumPy, Pandas, Flask, REST API, MySQL, MongoDB, Alteryx, 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, Pandas, Requests, Urllib, 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.

EDUCATION

Thakur College of Engineering and Technology | *Master of Engineering (M.E.)* *Mumbai* | 05-2019 - 05-2021

- 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* | 05-2015 - 05-2018

- 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* | 05-2010 - 05-2015

- 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%*

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/record/9789811333934)