**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**

* **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, 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** 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.

**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%***

**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://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)