

Ram Shindijamekar

shindijamekar.1101@gmail.com — www.linkedin.com/in/ram-shindijamekar — ramshindijamekar.github.io

EDUCATION

- **Shri Sant Gajanan Maharaj College Of Engineering** Shegaon, IN
Bachelor of Engineering *August 2019 - August 2023*

EXPERIENCE

- **KhetiBuddy Agritech Pvt. Ltd.** Pune, IN
Jr. Software Engineer *July 2024 - Present*
 - Transformed data acquisition processes by designing and deploying web scraping systems using Scrapy, enabling the delivery of real-time geodata to over 10 clients, enhancing data accuracy and acquisition speed.
 - Developed migration scripts and scalable ETL pipelines to transform and migrate high-volume datasets of approximately 200,000 rows at a time into optimized MySQL databases, enhancing query performance and data integrity, and resolving the company's challenge of obtaining real-time geodata for multiple clients.
 - Spearheaded the development of a plant disease detection system from scratch using deep learning models for 5 plant species, empowering farmers with timely insights to effectively manage plant health.
 - Gained proficiency in new technologies including Angular and deployment strategies, deepening my understanding of project workflows and positioning myself to contribute to the company's growth and success.

PROJECTS

- **Terrasynapse: Geo-data Extraction and Migration**
 - Solely designed and integrated a data extraction and scraping system to gather geographical information, including measurement metrics, from a designated website. This system improved data accuracy by 30% and significantly enhanced reliability for multiple clients through tenant-specific configurations.
 - Developed a data pipeline that processed and migrated over 200,000 rows of country data into a MySQL database, ensuring data integrity and addressing real-time issues for over 7 clients while reducing processing time.
 - Utilized migration scripts, SQLAlchemy, and PyMySQL to automate data transfer, resulting in improved data quality and a 80% enhancement in retrieval times through structured and normalized data across 9 hierarchical tables to support tenant-based access and customization.
 - Implemented soft deletion for historical data retrieval while maintaining data reliability and compliance, along with managing project deployment, tenant application setup, and documentation. This ensured accurate, metric-based geographical data tailored to client-specific requirements for 5 countries.
- **RacketDL: Insights and Performance Analytics**
 - Engineered a cutting-edge tennis analysis system utilizing YOLOv8 for real-time detection of players and tennis balls, enhancing training and performance evaluation across 20+ matches for coaches and athletes.
 - Created and fine-tuned a custom CNN using PyTorch to accurately extract 5+ key points on the court, significantly improving the analysis of player positioning and movement patterns during matches.
 - Implemented advanced object tracking algorithms to maintain continuous tracking of athletes and game elements across 30+ video frames, providing actionable insights for personalized coaching strategies.
 - Leveraged Open-CV for video processing enabling manipulation, visualization, and storage of analytical data from over 50 match recordings, supporting a data-driven approach to performance enhancement and strategic planning.

PROGRAMMING SKILLS

- **Technical Skills:**
Python, Machine Learning Algorithms, MLOps, Generative AI, Large Language Models (LLMs), Deep Learning, Predictive Modeling, EDA, Data Visualization, Statistical Analysis, Angular, Typescript
- Tools:**
Power BI, Git, Github, DVC, Docker, CI/CD, Scikit-learn, MySQL, Microsoft Excel, MATLAB

PUBLICATIONS

- **Research on Detection of Brain Tumor Using MRI Images in Machine Learning** IEEE-INSCIRD, April 2023