SAURABH DATTATRAY HARAK

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DATA ENGINEER | MACHINE LEARNING ENGINEER

PROFESSIONAL SUMMARY

- Dual-skilled **Data Engineer and Machine Learning Engineer** with **over all 3.5 years of experience in** designing and implementing robust data pipelines, driving efficient data management and analysis.
- Offering successful track record in successful delivery of an ERP project, pioneering R&D for autonomous drones, along with hands-on development and leadership responsibilities, guiding the teams of accomplished professionals and driving innovative projects to fruition.
- Experienced **Full Stack/Android Developer**, integral in bringing tailored solutions to life, enhancing operational efficiency, and enriching user experiences.
- Proficient in developing machine learning models and algorithms to extract actionable insights from complex datasets.
- Adept at leveraging advanced technologies to optimize data-driven processes and enhance decision-making.
- Seeking to contribute expertise in both domains to impactful projects and innovative solutions.

CORE COMPETENCIES

Data and Machine Learning Engineering ▪ Database Management ▪ Programming ▪ Big Data Technologies ▪ Data Visualization ▪ ERP Implementation ▪ Project Management ▪ Software Development ▪ Mobile Application Development ▪ Automation ▪ Full Stack Development ▪ Android Development ▪ People Management

IT SKILLS

Big Data Ecosystem	NoSQL, Spark, PySpark , Kafka, Airflow
Languages	Python, core Java, C++, SQL
Cloud Computing	AWS,EC2, S3, Glue, Lambda, Redshift, Athena
Machine/Deep Learning	ANN, CNN, DNN, Linear Regression, Yolo3, Logistic regression, Decision tree, SVM algorithm, Naive Bayes algorithm, KNN algorithm, K-means, Random Forest algorithm
Database	MySQL, MongoDB
Statistics/ML	Linear/Logistic Regression, Ensemble Trees, Gradient Boosted trees, Generative AI ,Customizing GPT Models,LLM
Frameworks	Django, Flask, CSS Bootstrap, flutter, Streamlit
Version Control	Git, GitHub
Deployment Tools	Heroku, AWS, Terraform, CI/CD pipeline

CAREER HISTORY

INDIAN SCHOOL OF BUSINESS – HYDERABAD | Nov. 2022 – Present ▶ Data Engineer

Playing a pivotal role in designing, constructing, and managing data pipelines and databases, spanning both Relational and NoSQL structures, for a significant national-scale spatio-temporal data warehousing, visualization, and analytics initiative.

Key Deliverables:
- Develop database architecture, meticulously tailored to encompass the project's broader needs, while ensuring seamless data storage, accessibility, and management.
- Integrate data from diverse sources, upholding stringent quality and accessibility standards, ensuring the reliability of the data ecosystem.
- Craft well-structured database schemas and tables, driven by system requisites and optimized for efficient data storage, retrieval, and maintenance.
- Construct robust data pipelines that ensure uninterrupted data flow.
- Devise and implement monitoring systems to guarantee the continuous availability and performance of the databases.

- Produce and maintain meticulous documentation encompassing database structures, data standards, procedural guidelines, and metadata definitions.
- Assume responsibility for database security and disaster recovery protocols, safeguarding the integrity and continuity of data.
- Accomplished the successful creation of data pipelines for over 20 datasets, ensuring seamless and optimized data movement.
- Orchestrated web scraping efforts across more than 10 websites, procuring invaluable data for further analysis and processing.
- Spearheaded the development of a specialized application for LGD MAPPING, streamlining operations and elevating data precision.
- Led and guided a proficient team of 4 members, effectively orchestrating tasks and ensuring project triumph.
- Innovatively designed and executed an architecture for dataset naming and organization, elevating data accessibility and enhancing overall management efficiency.

JATAYU UNMANNED TECHNOLOGY PVT. LTD. – MUMBAI | Jan. 2021 – Nov. 2022 ▶ Full Stack Developer/Team Leader

Joined as Full Stack Developer and promoted to Team Leader. pioneering research and development endeavours to achieve drone autonomy, equipping them with the capability to operate autonomously. Your role encompasses both hands-on development and leadership responsibilities, guiding a team of accomplished professionals and driving innovative projects to fruition.

Key Deliverables:
- Led innovative research and development projects focused on achieving drone autonomy, empowering unmanned aerial vehicles to operate independently with accuracy and intelligence.
- Oversaw and led a team of skilled professionals, nurturing a collaborative atmosphere that encourages innovation, knowledge exchange, and smooth project implementation.
- Drove automation implementation across various dimensions of drone operations, optimizing workflows, reducing manual interventions, and significantly enhancing overall operational efficiency.
- **Conceptualized and realized a sophisticated web application dedicated to drone data monitoring**.
  - o This application provides real-time insights and analytics, facilitating informed decision-making and actionable intelligence.
- **Acquired a Certification of Appreciation in recognition of exceptional contributions (2021).**
- Demonstrated exceptional analytical skills by evaluating the performance of the Drone Detection System, resulting in a notable **35% enhancement in the efficiency of the jammer system**.

FREELANCER (Full Stack Developer & Android Developer) **| MAR. 2020 – Jan. 2021**

Key Deliverables:
- Orchestrated the holistic development of a specialized ERP (Enterprise Resource Planning) application meticulously tailored exclusively for a Vegetable vendor. From the scrupulous curation of requirements to the seamless orchestration of deployment, my pivotal role underscored the project's triumphant realization.
- Championed the inception of a comprehensive mobile application for a beauty parlour, accentuating the paramount appointment booking feature. Steering the entire developmental lifecycle, spanning intricate requirement scrutiny to the seamless culmination of deployment, I ensured an ergonomic and streamlined solution for the parlour's discerning clientele.
- Exemplarily achieved the delivery of the ERP project well within a remarkable 5-month timeline.
- Attained the culmination of mobile application development impressively within a laudable span of 4 months, currently hosted on the Play Store.

For Projects, please refer to the [Portfolio](#) Link

EDUCATION & OTHER CREDENTIALS

- Executive Post Graduation Programme - Machine Learning & AI from IIIT Bangalore | 70%
- BE. - Computer Engineering from Pune University | 69%
- Diploma - Computer Engineering from SIT Polytechnic Nashik | 82%

Certificates:
- **Introduction To Data Science, IBM | Data Science Methodology, IBM | Data Analysis with Python, IBM | Spark Basics, Great Leaning | Introduction to TensorFlow and Keras | Introduction to Large Language Models | Introduction to Generative AI**

PERSONAL DOSSIER

- Date of Birth: 11th July, 1997 | Linguistic Abilities: English, Hindi, and Marathi