
SHYAMSUNDAR DHARWAD

Data Scientist | Machine Learning Engineer | Industrial Analytics

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PROFESSIONAL SUMMARY

Data Scientist and Machine Learning Engineer with strong expertise in Python, machine learning, NLP, and data visualization, combined with over five years of industrial experience at Larsen & Toubro in mining machinery operations. Proven ability to translate real-world engineering problems into data-driven solutions for operational efficiency, predictive maintenance, and decision support.

PROFESSIONAL EXPERIENCE

Service Engineer – Construction & Mining Machinery

Larsen & Toubro Limited

September 2012 – March 2017

- Managed SAP HANA-based service, inventory, and logistics data supporting large-scale mining operations.
 - Led end-to-end maintenance workflows including failure assessment, estimation, procurement, assembly, and dispatch.
 - Maintained and repaired heavy mining machinery, building strong domain knowledge applicable to industrial analytics and predictive maintenance.
 - Coordinated with cross-functional operations teams to ensure smooth data and process flow between service, inventory, and management systems.
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EDUCATION

Master Data Science Program (Advanced Professional Programming)

IIT Madras (GUVI), 2024

Advanced Python for Data Science

Indian Institute of Management (IIM), 2023

Diploma in Electrical & Electronics Engineering

Rural Polytechnic, Hunsbhavi, 2012

TECHNICAL SKILLS

Programming & Databases: Python (NumPy, Pandas), SQL (MySQL), MongoDB

Machine Learning: Linear & Logistic Regression, Decision Trees, Random Forest, Feature Engineering, Model Evaluation

Natural Language Processing: Text Processing, Sentiment Analysis, Language Modeling

Data Visualization & Applications: Streamlit, Plotly, Interactive Dashboards

Tools & Platforms: Git, GitHub, SAP HANA (User Level), Microsoft Excel, Word, PowerPoint

PROJECTS

Kannada Language Model (From Scratch)

- Designed and trained a Kannada language model including data collection, preprocessing, tokenization, and evaluation.
- Worked on low-resource language NLP challenges and model error analysis.
- Deployed the application using Streamlit, Docker, and AWS, gaining hands-on experience with end-to-end ML deployment.

YouTube Data Warehousing and Analytics

- Built an end-to-end data pipeline using Google APIs, MongoDB, and MySQL.
- Developed a Streamlit application for searchable analytics and SQL-based insights.

BizCardX – Business Card OCR Application

- Developed an OCR system using EasyOCR and Regex to extract structured information from business cards.
 - Stored and managed extracted data in MySQL with a Streamlit-based interface.
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ACHIEVEMENTS

- Awarded by the CEO and President of Komatsu for contribution to innovation and efficiency improvement at the service center.
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LANGUAGES

Kannada (Native), Telugu (Native), English (Highly Proficient), Hindi (Very Good), Tamil (Working Knowledge)
