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## 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.

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## 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

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## 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

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## 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)

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