

# VIDYA SAGAR EMPELLY

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## OBJECTIVE

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Motivated Computer Science Engineering graduate specializing in Data Science, with strong skills in Python, NumPy, Pandas, PyTorch, SQL, Power BI, OpenCV, and n8n. Hands-on Experience in data preprocessing, exploratory analysis, building interactive dashboards, writing SQL queries, and automating workflows using n8n. Seeking an opportunity to apply analytical thinking and problem-solving abilities to real-world projects, contribute to impactful data-driven solutions, and continually grow in AI and Data Science.

## SKILLS

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- **Programing Languages** - Python, C
- **Python Libraries** - NumPy, pandas, PyTorch, Matplotlib and Seaborn
- **Visualization Tools** - Power BI, MS Excel
- **Databases** - SQL, MySQL
- **Image and Video Processing** - OpenCV
- **Tools & Frameworks** - Visual Studio Code, Google Colab and Jupyter notebook.
- **Automation Tools** - n8n

## PROJECTS & WORKFLOW

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### Pandas & NumPy Projects

- Performed end-to-end data preparation and analysis on multiple datasets, including Iris and Titanic—covering data cleaning, handling missing values, feature engineering, statistical analysis, and generating detailed EDA reports. Extracted meaningful insights using Pandas, NumPy, Matplotlib, and Seaborn to support data-driven decision-making.

### Power BI Projects

- Designed and deployed interactive dashboards by transforming raw, unstructured data into clean analytical models using Power Query and DAX. Developed insights-driven reports for Sales, Superstore, Diabetes, HR datasets, and Blinkit business analysis—enabling data storytelling, KPI tracking, and visual-driven decision-making.

### OpenCV Projects

- Built multiple computer vision applications using OpenCV, implementing image preprocessing, contour detection, color space transformations, and motion tracking. Developed real-time systems such as a paint application, ROI-based static & dynamic motion detection, and a facial beautification tool to demonstrate practical CV problem-solving.

### n8n Projects

- Designed and automated complex workflows and AI-driven systems using n8n, integrating APIs, LLMs, webhooks, and databases. Built production-ready systems including :
- **Single & Multi-User Telegram Chatbots** for automated interactions.
- **Resume ATS Checker**: extracted score , append to Sheets and Notified with email.
- **Smart Query Routing System** for auto-directing user queries to relevant workflows.
- **AI-Driven Assignment Evaluation & Scoring System** using LLM-based evaluation.
- **Language Translation App** using **n8n + Streamlit** for multi-language text translation.

## ACHIEVEMENTS AND CERTIFICATIONS

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- **Participated in the IR4.0 Foundation certification**, course under TechSaksham a CSR initiative by Microsoft and SAP implemented by Edunet Foundation.
- **Data Analytics Job Simulation Certification from Deloitte**, Used Microsoft Excel to classify data and draw business conclusions and Created a Dashboard using Tableau.
- **PYTHON and POWERBI certifications Infosys and Innomatics Research Labs** , Learned the fundamentals of python, including key algorithms and data processing techniques.

## EDUCATION

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- **Bachelor of Technology(B.Tech) : Computer Science and Engineering (DATA SCIENCE),JNTUH University**, Vaagdevi Engineering College, Bollikunta, Warangal.  
CGPA : 6.7
- **Higher Secondary Education (Intermediate) : MPC**, Telangana State Model Junior College, Zaffargadh, Jangaon.  
CGPA : 9.6
- **Secondary Education (High School) : Telangana State Model School**, Zaffargadh, Jangaon.  
CGPA : 9.5