# DIWAGAR B.K.

Python Developer

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## SUMMARY

Motivated Python Developer with a strong foundation in programming, problem-solving, and application development. Experienced in writing clean, efficient Python code and working on real-world projects involving data handling, automation, and backend logic. Quick to learn, detail-oriented, and committed to building reliable and maintainable software solutions.

## EDUCATION

**B.TECH IN ARTIFICIAL INTELLIGENCE AND DATA SCIENCE**
*CGPA - 7.9**
KGISL Institute of Technology
2021-2025

**12TH GRADE**
*PERCENTAGE: 89%*
Sri Gopal Naidu Higher Secondary School
2020-2021

**10TH GRADE**
*PERCENTAGE: 91%*
MJ Vincent Matriculation Higher secondary school
2018 - 2019

## SKILL

- PYTHON
- SQL
- DJANGO
- HTML
- CSS
- JAVA SCRIPT
- REST APIs
- MACHINE LEARNING
- DEEP LEARNING

## LANGUAGE

- English
- Tamil
- Malayalam

## EXPERIENCE

- **KGXPERIENCE** **JUL 2022-DEC 2022**

  **Python developer**

  Worked on backend development using Python and Django, focusing on building scalable RESTful APIs for a product listing web application. Designed and implemented database models, handled API integration, and ensured smooth data flow between the frontend and backend. Also collaborated with the team to debug issues and optimize performance.

- **EXPOSYS DATA LABS** **APR 2023-JUN 2023**

  **Data Scientist**

  I focused on analyzing datasets, building predictive models, and extracting actionable insights. I performed tasks like data cleaning, exploratory analysis, and model development using Python, Scikit-learn, and visualization tools. I also documented findings and presented results in a clear, structured format for better decision-making.

- **CORIZO** **JUL 2024-SEP 2024**

  **Marketing Analyst**

  I handled tasks such as email marketing campaigns (mail blasting), SEO optimization, and market research. I gained experience in using digital marketing tools, analyzing campaign performance, and identifying strategies to improve engagement and reach. This role helped me build a strong foundation in data-driven marketing and user behavior analysis.

## PROJECTS

- **INTRUSION DETECTION SYSTEM WITH HONEYPOT**
  *TECHNOLOGIES USED: MACHINE LEARNING ALGORITHMS, WIRESHARK, SNORT*

  **Description:** Designed and implemented an intrusion detection system integrated with a honeypot to monitor and analyze malicious network activity using cybersecurity and machine learning techniques.

  **Key Learnings:**
  - Applied ML techniques to detect anomalies in network traffic.
  - Gained hands-on experience with cybersecurity tools and threat analysis.

## CERTIFICATIONS

- **PYTHON FOR DATA STRUCTURES - *UNIVERSITY OF MICHIGAN***

  Covered lists, dictionaries, tuples, and algorithmic thinking using Python.

- **IBM DATABASES AND SQL FOR DATA SCIENCE - *IBM***

  Learned SQL, relational databases, and data querying for data analysis.

- **ORACLE SQL PROFICIENCY - *ORACLE***

  Demonstrated skills in querying, managing, and manipulating Oracle databases.

- **ETHEREUM BLOCKCHAIN DEVELOPMENT WITH SOLIDITY - *UDEMY***

  Covered smart contract development and DApp creation on Ethereum.

- **AI, MACHINE LEARNING & DATA SCIENCE - *UDEMY***

  Explored supervised/unsupervised learning, model evaluation, and data visualization.

## WORKSHOPS & HACKATHONS

- Startup Pitching Workshop – *Agile*
- Machine Learning Workshop – *Suguna College of Engineering*
- Smart India Hackathon 2023 – *National Level Competition*
- *National Level Code-A-Thon 2024 – Coding Challenge Event*

- **AUTOMATED TRADING ANALYTICS SYSTEM**
  *TECHNOLOGIES USED: TENSORFLOW, SKLEARN, LSTM, PATTERN RECOGNITION*

  **Description:** Developed an AI-powered trading assistant that performs real-time technical analysis and risk management using machine learning models. The system detects market patterns like BOS and CHoCH, streams live data via WebSockets, and provides instant alerts, liquidity insights, and automated risk notifications.

  **Key Learnings:**
  - Implemented real-time analytics using WebSockets and achieved low-latency alerts for dynamic trading environments.
  - Trained ML models (85% accuracy) for pattern recognition and enhanced financial decision-making with AI.

- **MUSIC RECOMMENDATION SYSTEM BASED ON FACIAL EXPRESSION**
  *TECHNOLOGIES USED: OPENCV, TENSORFLOW, CNN, RNN*

  **Description:** Built a system that recommends music by analyzing users' facial expressions using convolutional and recurrent neural networks.

  **Key Learnings:**
  - Developed emotion recognition using CNN and real-time facial input via OpenCV.
  - Gained experience integrating deep learning models with recommendation systems.

- **INTELLIGENT CHATBOT TO IDENTIFY INDIVIDUAL'S PRAKRITI**
  *TECHNOLOGIES USED: NATURAL LANGUAGE PROCESSING (NLP), RASA*

  **Description:** Created a chatbot using NLP techniques to assess a user's Prakriti (body constitution) based on responses to personalized questions.

  **Key Learnings:**
  - Gained hands-on experience with conversational AI using Rasa.
  - Improved skills in intent recognition and context-aware dialogue flow.