Vardhan Kumar Madipalli

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SUMMARY

Detail-oriented Java,Python and SQL Developer with hands-on experience in backend development and Exploratory Data Analysis . Skilled in building scalable backend systems, optimizing database queries, and developing Python-based tools for data handling and analytics. Adept at using Pandas to create efficient workflows that bridge data and functionality. Passionate about writing clean, maintainable code and deploying impactful solutions.

EDUCATION

- **Vasireddy Venkatadri Institute of Technology** — Dec 2021 – May 2025
  B.Tech in Computer Science (AI & ML), CGPA: 7.21 — *Guntur, India*

- **Vikas Junior College** — Jun 2019 – Apr 2021
  Intermediate in MPC, CGPA: 9.7 — *Vissannapeta, India*

- **Kerala High School** — Jun 2018 – Apr 2019
  SSC (10th Grade), CGPA: 9.2 — *Vutukuru, India*

PROJECTS

- **Hospitality Analysis – Exploratory Data Analysis**

  Python, Pandas, NumPy, Matplotlib, Seaborn
- Performed EDA on hotel booking data to uncover trends in cancellations, customer behavior, and seasonal demand.

- Processed and visualized datasets using Pandas, NumPy, Matplotlib and Seaborn to generate actionable business insights.

- **Smart Verify – Document Validation Data Extraction System**

  Python, Pandas, SQL, NLP,Regex
- Developed a system to extract, validate, and structure unstructured documents using NLP and regex.

- Integrated SQL-based storage and retrieval pipelines to structure document data efficiently.

- Automated resume screening and eligibility checks, reducing manual verification time by **40%**.

- **SpeakEazy – Gesture Interpretation for Accessibility**

  Python, Scikit-learn, OpenCV
- Built gesture-recognition APIs using Python, OpenCV, and TensorFlow to interpret gestures in real-time.

- Collected and preprocessed gesture image data using OpenCV and MediaPipe for model training.

- Built classification models, improving gesture recognition accuracy through hyperparameter tuning.

TECHNICAL SKILLS

- **Languages:** Python, SQL, Java, JavaScript , MySQL

- **Frameworks/Libraries:** Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn

- **Data Visualization:** Power BI, Excel

- **Tools:** Git, Windows

- **Concepts:** Backend Development, Data Processing, EDA

- **Soft Skills:** Strong analytical ability, problem solving, communication

STRENGTHS

- Strong foundation in Python and SQL development.

- Excellent problem-solving and debugging ability.

- Adaptable and quick learner across new frameworks and tech stacks.

- Effective communicator for both technical and non-technical audiences.