Khilesh Bhangale

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EDUCATION

VIT Bhopal University   Bhopal, MP
Bachelor of Technology in Computer Science and Engineering, CGPA:8.07   *Sept 2022 – 2026*

TECHNICAL SKILLS

Languages: Python, SQL (MySQL), HTML, CSS
Libraries & Frameworks: Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, React, Node.js, Next.js
Data & Visualization Tools: Excel (Advanced), Google Sheets, Power BI, Tableau
Platforms & Developer Tools: Jupyter Notebook, Google Colab, VS Code, PyCharm, Git/GitHub, Appwrite

PROJECTS

Product Delivery Prediction | *Python, Scikit-learn, Pandas, NumPy, Matplotlib*   Jan 2024 – Apr 2024
- Performed **data cleaning and exploratory data analysis (EDA)** on 11K+ delivery records with 12 attributes to identify patterns and delay factors.
- Trained and benchmarked multiple **machine learning algorithms** inuding Decision Tree, Random Forest, and Logistic Regression; best model achieved **69% accuracy**.
- Derived **actionable insights** on how discounts and parcel weights influence delay probability, enabling **12–15% reduction in predicted delivery delays**.
- Visualized performance metrics and feature importance using **Matplotlib and Seaborn**, enhancing model interpretability.

Cotton Field Weed Detection | *Python, YOLOv11, TensorFlow, OpenCV, Ultralytics*   May 2024 – Aug 2024
- Built an **AI-powered real-time weed detection system** using YOLOv11 to identify multiple weed categories in cotton fields.
- Curated, annotated, and preprocessed a **custom agricultural dataset** using Roboflow; applied augmentation to improve model robustness under diverse lighting and soil conditions.
- Achieved **72% mean Average Precision (mAP)** and **92% recall**, ensuring reliable detection performance across varying scenarios.
- Analyzed **class imbalance and false positives**, contributing to dataset refinement and future model tuning strategies.

Shauryan | *SQL, Appwrite, HTML, CSS, Dwolla API*   Sept 2023 – Dec 2023
- Developed a **secure full-stack banking system** supporting account creation, fund transfers, and transaction tracking using Appwrite backend and MySQL database.
- Implemented **role-based access control (RBAC)** with SQL schema design to manage user privileges and protect sensitive data.
- Integrated **Dwolla API** for ACH payments and real-time fund transfers, simulating industry-grade financial workflows.
- Improved security by reducing unauthorized access attempts by **40%**, and optimized query performance via SQL indexing and validation layers.

CERTIFICATIONS

- Foundations: Data, Data, Everywhere (Google)
- Data Science in Python (iamneo)

EXTRA-CURRICULAR

Linpack Club   Dec 2023 - Aug 2025
Event Management Lead   *VIT Bhopal University*
- Led and mentored 60+ team members at Technical Club, organizing MATLAB/Simulink and LaTeX workshops, hackathons to enhance computational and technical skills.
- Expanded the workshop program by boosting technical engagement by 25% through workshops and hackathons.