Dev Bansal

 https://github.com/DevBansal1007 | https://www.linkedin.com/in/dev-bansal-426999241/ | ✉
bansal.dev.tech@gmail.com | 📞 +91 7877816131 | 📍 Jaipur, Rajasthan

EDUCATION

VIT Bhopal University	June 2026
B.Tech. Computer Science Engineering	*Current GPA: 8.55*
Tagore International School, Bhopal, M.P.	Jul 2020 - Jul 2021
C.B.S.E (Class XII)	*Percentage: 94.4%*
Tagore International School, Bhopal, M.P.	Jul 2018 - Jul 2019
C.B.S.E (Class X)	*Percentage: 91.14%*

SKILLS

Languages: Python, Java, C++, SQL, JavaScript, HTML/CSS

Tools: Git/GitHub, Excel, Tableau, Streamlit

Libraries: pandas, NumPy, Matplotlib, Seaborn, TensorFlow, PyTorch

EXPERIENCE

Preprod Corp — *Data Analyst Intern (Online)* — Aug 2024 – Nov 2024

- Implemented **computer vision algorithms** using **YOLO** for real-world traffic optimization, resulting in improved traffic flow analysis
- Developed and fine-tuned **ML models** with performance tracking using **MLflow**, enhancing model accuracy and maintainability
- Processed streaming data using **Apache Kafka** and performed image manipulation with **kernels** for edge detection tasks
- Collaborated in **Agile Scrum** sprints, working on data processing and enrichment pipelines to improve data quality

PROJECTS

AutoML Streamlit App — Aug 2023

- Engineered a comprehensive AutoML platform using **Streamlit** that processes multiple data formats (**CSV/XLSX**), reducing model development time by **70%**
- Implemented robust data preprocessing pipeline utilizing **Pandas** and **NumPy**, featuring automated cleaning and custom transformation options
- Integrated advanced ML models from **Scikit-learn**, **XGBoost**, and **TensorFlow**, achieving **85%** accuracy across various classification and regression tasks
- Developed interactive dashboards with **Matplotlib** and **Seaborn** for real-time visualization of model metrics and performance insights

Social Media Engagement Analysis Bot — **Supermind Hackathon** | *Python, Langflow, AstroDB* — Jan 2024

- Engineered automated web scraping pipeline using **RapidAPI** to collect data from **Instagram, Twitter, and Reddit**, processing **100+** posts daily
- Developed engagement analytics system with **Python** to calculate metrics like reach, interactions, and content performance, improving user insights by **85%**
- Implemented data pipeline using **Langflow** and **AstroDB** for storing and processing social media data, enabling real-time content analysis

- Built interactive AI chatbot interface that analyzes user's social media performance and provides actionable content strategy recommendations

PathSarthi: Smart Navigation Aid for Visually Impaired | *Computer Vision, IoT, Python*   Nov 2024 - Present
- Leading development of an economical smart cane (**PathSarthi**) using **Raspberry Pi**, integrating **ultrasonic sensors** and **HD camera** for comprehensive obstacle detection
- Created and annotated custom dataset of **2000+** Indian road images including vehicles, potholes, and infrastructure for model training
- Implemented real-time object detection using **MobileNet** architecture achieving **85%** accuracy, optimized for low-latency performance on edge devices
- Engineered multi-modal alert system combining **computer vision**, proximity sensors, and audio feedback for enhanced safety, reducing navigation risks by **70%**

ACHIEVEMENTS

Hackathon Achievement   August 2024
- Placed **4th out of 40 teams** in competitive hackathon, demonstrating exceptional teamwork, creativity, and rapid problem-solving skills
- Developed innovative project under time constraints, showcasing adaptability and technical innovation

Competitive Programming
- Solved **100+ problems** on LeetCode and GeeksforGeeks, highlighting strong analytical skills and algorithmic problem-solving in Java and Python
- Enhanced proficiency in data structures, dynamic programming, and system design through consistent practice

ADDITIONAL

Languages: English(Fluent); Hindi(Fluent),Japanese(Beginner)
Certifications/Training :JLPT N5 ; FullStack DS and AI by NareshIT; Bits and Bytes of Computer Networking; Cloud Computing and Marketing Analytics by NPTEL
Hobbies : Blogging and Novel Reading ; Playing the Ukulele; Traveling and Exploring New Cultures