

Yuvraj Singh Kushwah

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Professional Summary

Data-driven Data Scientist proficient in Python, SQL, Excel, Power BI, and Machine Learning. Experienced in the complete data lifecycle, including data cleaning, Exploratory Data Analysis (EDA), and model development using scikit-learn and TensorFlow. Proven ability to leverage AI and Deep Learning to deliver insightful, data-driven solutions. Applies an analytical mindset and continuous learning to solve complex real-world business problems.

Education

Jagran Lakecity University

Bachelor of Computer Applications (Hons.) in Data Science, CGPA: 9.18/10

Bhopal, Madhya Pradesh

Expected Graduation: 2026

Technical Skills

Programming Languages: Python, SQL

Data Visualization: Tableau, Power BI, Advanced Microsoft Excel, Matplotlib

Machine Learning Frameworks: scikit-learn, TensorFlow, XGBoost

Data Analytics: Data Cleaning, Exploratory Data Analysis (EDA), Feature Engineering, Model Evaluation, Statistical Analysis

AI and Deep Learning: Machine Learning, Deep Learning, Generative AI, Natural Language Processing (NLP), EfficientNet-B0, LLaMA, Stable Diffusion

Professional Experience

Data Analytics Job Simulation

Deloitte Australia on Forage (Remote)

November 2025

Tools: Tableau, Excel

- Developed an interactive data dashboard in Tableau to visualize key business metrics and performance indicators
- Analyzed and classified client data using Advanced Excel functions to derive actionable insights for business decision-making
- Applied data analytics techniques to identify trends and patterns in large datasets

Quantitative Research Virtual Internship

JPMorgan Chase and Co. (Remote)

November 2025

Tools: Python, Matplotlib, scikit-learn, StatsModels

- Analyzed loan portfolio data to estimate default probability utilizing dynamic programming techniques
- Engineered categorical features from FICO score data, significantly improving model prediction accuracy
- Developed predictive models using Python and statistical libraries to support quantitative analysis

Projects

CONTRA - AI-Driven Data-to-Art and Storytelling Platform | Python, TensorFlow, Stable Diffusion, LLaMA

- Developed a multimodal AI platform to transform text into contextual narratives, visuals, and chatbot interactions
- Engineered scalable APIs integrating Natural Language Processing (LLaMA) and image generation (Stable Diffusion) models
- Built real-time data pipelines aggregating data from Wikipedia, DBpedia, and GNews for contextual enrichment

ORBITUNE - AI-Powered 16D Music Experience | Python, Librosa, Demucs, FFmpeg, Gemini API

- Engineered an AI audio processing system to convert stereo tracks into immersive 16D audio using Digital Signal Processing (DSP) and Machine Learning algorithms
- Integrated an emotion-aware chatbot (Gemini API) for user mood detection and personalized music recommendations
- Implemented audio feature extraction and transformation techniques using Librosa and Demucs

Multi-Modal Price Prediction Engine | Python, XGBoost, LightGBM, CatBoost, PyTorch, EfficientNet-B0

- Developed GPU-accelerated ensemble achieving 67.29% SMAPE on 75K products with less than 1ms inference time.
- Engineered regex-based features and CNN image embeddings (EfficientNet-B0) with PyTorch CUDA optimization.
- Reduced RAM requirement from 16GB to 8GB through feature decoupling; achieved 3x GPU training speedup.

Certifications and Awards

Oracle Cloud Infrastructure 2025 Certified Generative AI Professional

Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate

The Ultimate Job Ready Data Science Course - CodeWithHarry

Achievement of Academic Excellence Award - 100 percent scholarship