Mohammed Khasif

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Education

Vellore Institute of Technology, Bhopal, India
Integrated M.Tech in Artificial Intelligence — Aug 2021 – Aug 2026
CGPA: 8.2/10.0

Bellary Independent PU College, Bellary, Karnataka — Jul 2019 – May 2021
Percentage: 82%

Race Concept School, Raichur, Karnataka — May 2019
Percentage: 81.2%

Technical Skills

Programming Languages: Java, Python, R, SQL, HTML/CSS
Databases: MySQL, ChromaDB
AI/ML Frameworks & Libraries: TensorFlow, PyTorch, OpenCV, Scikit-learn, LangChain, Keras, Hugging Face, Transformers, YOLO, GANs
Tools & Platforms: Power BI, Git, GitHub, Docker, Linux, Jupyter Notebooks, Google Colab

Experience

AI Data Analytics Intern — Skills4Future.in (Remote) — Nov 2024 – Jan 2025

- Developed a Linear Regression model to forecast solar power output, achieving 97% accuracy.
- Enhanced performance by 15% via EDA, outlier detection, and feature normalization.
- Compared baseline and ensemble models (Random Forest, Gradient Boosting), targeting 99% precision.
- Utilized cross-validation and visualized results with Seaborn and Plotly.
- Documented the entire ML pipeline with clear annotations and project insights for handoff.

Projects

AI-Powered Mental Health Risk Detector — Mar – Apr 2025

- Fine-tuned a BERT model on a large dataset of 10K+ Reddit mental health posts, achieving an impressive 91% F1-score for depression and anxiety detection.
- Implemented SHAP to provide explainability for model predictions, enhancing transparency and building trust in the classification system
- Developed a real-time Streamlit dashboard with anonymized input capabilities, demonstrating a low prediction latency of under 1.2 seconds.

Intelligent Credit Card Fraud Detection System Nov – Dec 2024

- Engineered a robust ensemble model (Logistic Regression, Random Forest, SVM) on imbalanced transactional data, achieving a high 99.2% ROC AUC and 93.5% recall.
- Employed SMOTE (Synthetic Minority Over-sampling Technique) and advanced feature engineering to boost the F1-score to 0.92 and significantly reduce false negatives by 35%.
- Optimized model for production by utilizing grid search tuning, resulting in a reduced latency of 0.8 milliseconds per transaction.

Public Transport Dashboard — Power BI + SQL Feb – Mar 2025

- Analyzed over 1 Million transit records using PostgreSQL and advanced SQL window functions to identify critical patterns in public transport delay and route efficiency.
- Designed and implemented interactive **Power BI dashboards with dynamic DAX KPIs and automated alerts for underperforming routes, enhancing monitoring capabilities.
- Provided city planners with real-time, data-driven insights through comprehensive reports, enabling informed interventions for optimizing public transport operations.

Certifications

- Data Analytics — Udemy
- Applied Machine Learning — University of Michigan (Coursera)
- AWS Certification — Intellipaat
- Artificial Intelligence — Edunet Foundation (Microsoft Collaboration)

Additional Information

- Solved 300+ coding problems on LeetCode and GeeksforGeeks.
- Languages: Fluent in English, Kannada, Telugu, Hindi, and Tamil.
- Passionate about applying AI for social impact and public good.