

Vikas Kumar

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Summary of Qualifications

Machine Learning Engineer, Data Engineer, and CV & NLP Expert with experience in Python, SQL, cloud platforms (AWS, Azure), and advanced machine learning techniques. Skilled in developing scalable data pipelines, deploying models using Docker and Kubernetes, and optimizing ML algorithms for business applications.

Education

Silver Oak College of Technology, Ahmedabad, Gujarat

B.Tech in Computer Science (Specialization in Artificial Intelligence and Machine Learning)

Skills

- **Programming Languages:** Python, C, Java, SQL
- **Data Science Libraries:** Numpy, Pandas, Matplotlib, Seaborn, Scikit-Learn, TensorFlow, PySpark
- **CV & NLP Tools:** OpenCV, NLTK, SpaCy, Hugging Face Transformers
- **Data Engineering Tools:** Airflow, Spark, DataBricks, Power BI
- **Cloud & Deployment:** AWS, Azure, Docker, Kubernetes

Data Engineering & Machine Learning

- Building data pipelines, model deployment, ETL processes, feature engineering
- Supervised and unsupervised learning, predictive modeling, deep learning

Mathematics & Statistical Analysis

- Probability, linear algebra, statistics

Projects

- **Real-Time Object Detection for Autonomous Systems**
 - Achieved 90% detection accuracy, improving safety in autonomous systems by detecting obstacles in real time. Optimized processing speed using YOLO and OpenCV, reducing latency by 30%.

- **Tools Used:** OpenCV, TensorFlow, YOLO
- **NLP Pipeline for Text Summarization & Sentiment Analysis**
 - Developed an NLP pipeline achieving 85% accuracy in sentiment analysis and summarization for business insights, leveraging BERT and SpaCy. Reduced manual review time by 40%.
 - **Tools Used:** Hugging Face Transformers, NLTK, SpaCy
- **Scalable Data Pipeline for E-Commerce Analytics**
 - Created a data pipeline processing 100K+ records daily, enabling real-time analytics for decision-making. Reduced ETL processing time by 40% using PySpark and optimized SQL queries.
 - **Tools Used:** PySpark, SQL, Airflow
- **Image Classification for Automated Medical Diagnosis**
 - Built a CNN model with 92% accuracy for medical image classification, enabling early diagnosis support. Reduced diagnostic time by 20%.
 - **Tools Used:** TensorFlow, Keras, OpenCV

Certifications

- Computer Vision Hands on -by neuron.ai
- Machine Learning with Python -by FreeCodeCamp
- Generative ai foundation -by neuron.ai
- Tensorflow Certificatio -by Great Learning
- Python -by Kaggle