

# KRISHNA ANVITH V

## Data Scientist | ML Intern

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### PROFESSIONAL SUMMARY

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Data Scientist with proven experience in building predictive Machine Learning (ML) models, optimizing large-scale data pipelines, and automating analysis workflows. Proficient in Python, SQL, TensorFlow, and Scikit-learn, with practical knowledge in Deep Learning (CNN, LSTM), cloud tools (AWS basics), and data engineering with Spark. Experienced in data-driven decision making utilizing Operations Research techniques. Delivered measurable impact through projects in environmental analytics, audio classification, and customer demand forecasting. Seeking opportunities to contribute to AI-driven innovation, including potential applications in Quantum Computing, and related fields like Robotics

### SKILLS

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**Languages:** Python, SQL, C, Java, HTML, CSS

**ML/AI:** TensorFlow, Keras, PyTorch, Scikit-learn, NLP, Deep Learning

**Data Analysis:** Power BI, Tableau, Jupyter, Anaconda, Google Colab

**DevOps/Cloud:** Apache Spark, VS Code, Flask, MySQL (AWS – learning)

**Big Data:** Proficient in handling and processing large datasets.

### TECHNICAL EXPERIENCE

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#### Data Science Intern | UpGrad

Jan 2024 - May 2024

- Gained 500+ hours of practical experience building ML solutions on real-world datasets, including time-series and sensor data.
- Designed and deployed end-to-end ML pipelines using Python, Scikit-Learn, and TensorFlow, optimizing feature engineering and model tuning, leading to a 20% efficiency boost in training time.
- Implemented a Human Activity Recognition (HAR) system, achieving 97.53% accuracy, using LSTM and CNN models to classify human actions from sensor data.
- Developed optimized data pipelines using Pandas, NumPy, and Apache Spark, reducing large-scale dataset processing time by 30%.

#### Computer Vision & IoT Summer Intern | TekWissen Software

May 2023 - Aug 2023

- Gained Designed and implemented a computer vision model for plant disease detection using TensorFlow and OpenCV, targeting real-time agricultural diagnostics.
- Collected and preprocessed leaf image datasets, applying augmentation techniques to improve model robustness against varying lighting and background noise.
- Developed a CNN-based classification system and evaluated performance using precision, recall, and F1-score metrics.
- Built a portable prototype using Raspberry Pi 4 for edge deployment, optimizing the model using TensorFlow Lite for low-power inference.
- Collaborated in an Agile team to document findings, present weekly progress, and align with client use-case expectations for smart agriculture.

### TECHNICAL PROJECTS

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#### EHR & Predictive Analytics for Environmental Health

Jan 2025 – May 2025

- Integrated 25,000+ rows of EHR, pollution, and health indicator data using Spark and Pandas.
- Predicted city-level Environmental Health Index using Gradient Boosting and Random Forest ( $R^2 = 0.83$ ).
- Designed risk visualizations and geospatial plots in Tableau to aid health policy decision-making.
- Delivered a reproducible ML pipeline ready for weekly updates and real-time deployment.

#### UrbanSound8K: Environmental Sound Classification

Jan 2025 – May 2025

- Processed 8,732 audio clips into Mel-spectrograms and MFCCs, enhanced preprocessing pipeline for noise-rich data.
- Developed CNN and DNN models achieving up to 76% accuracy on 10 urban sound categories.
- Boosted model generalization by 18% using augmentation (noise injection, time-shifting).
- Evaluated predictions with ROC-AUC and confusion matrix; identified misclassification patterns.

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| <b>Bank Management System — Flask &amp; MySQL Web App</b>  | <b>Jan 2025 – May 2025</b> |
| <ul style="list-style-type: none"><li>• Developed a secure full-stack banking dashboard using Flask, MySQL, and HTML/CSS to manage customer accounts, loans, and transactions.</li><li>• Designed and optimized complex <b>MySQL queries</b> (JOINS, filters, COUNT, LIMIT) for customer analytics, account summaries, and loan KPIs.Implemented admin authentication with password hashing and session-based access control.</li><li>• Built features like search by account number, new customer registration, and interactive dashboards.</li><li>• Tools: Python, Flask, MySQL, SQL, HTML/CSS, Bootstrap, Jinja2</li></ul> |                            |

EDUCATION

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|---|--------------------------|
| <b>Master of Science in Data Science</b>  | <b>Aug 2024- Present</b> |
| New Jersey Institute of Technology, Newark, New Jersey, US                                |                          |
| <b>Bachelor’s in computer science engineering Specialization Data Science (AI and ML)</b> | <b>Aug 2020-May 2024</b> |
| Lovely Professional University, Punjab, India   |                          |

CETIFICATIONS & LEARNING

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| <b>Neural Networks and Deep Learning – Coursera</b>              | <b>Expected July 2025</b>    |
| <b>Google Data Analytics Professional Certificate – Coursera</b> | <b>Jan 2025 – March 2025</b> |
| <b>Advanced SQL for Data Scientists – DataCamp</b>               | <b>March 2025 – May 2025</b> |

AWARDS & RECOGNITIONS

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| <b>National Service Scheme (NSS), Volunteer</b>  | <b>Aug 2022 - May 2024</b> |
| <ul style="list-style-type: none"><li>• Received official recognition from the Ministry of Youth Affairs and Sports, Government of India, for outstanding contributions to social service initiatives.</li><li>• Completed 470+ hours of community service, actively contributing to social welfare and awareness campaigns.</li><li>• Led and coordinated multiple community-driven projects, including blood donation camps, sanitation campaigns, and educational workshops, benefiting 500+ individuals.</li></ul> |                            |