

KRISHNA ANVITH V

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EDUCATION

Master of Science in Data Science

Aug 2024- Present

New Jersey Institute of Technology, Newark, New Jersey, US

Bachelor's in computer science engineering Specialization Data Science (AI and ML)

Aug 2020-May 2024

Lovely Professional University, Punjab, India

Certifications & Learning

Neural Networks and Deep Learning – Coursera

April 2025 - Present

- Gaining hands-on experience building deep neural networks using TensorFlow and Keras.
- Learning key concepts like forward/backward propagation, activation functions, and model optimization.

SKILLS

Languages: Python, SQL, C, HTML, CSS

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

Tools: Power BI, Tableau, Jupyter, Anaconda, Google Colab

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

TECHNICAL EXPERIENCE

Data Science Intern – UpGrad

Jan 2024 - May 2024

- Completed 500+ hours of hands-on experience in data science, machine learning, and deep learning, working on real-world datasets.
- 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%.

ACADEMIC RESEARCH PROJECTS

Banking Database Management System with Flask Frontend

Jan 2025 – Present

- Designed a full-stack banking system with Flask and MySQL, integrating 10+ normalized relational tables.
- Delivered secure admin login, real-time transaction views, and loan tracking modules.
- Enabled 100% referential integrity through foreign key enforcement and 3NF design.
- Reduced query latency by 40% through schema optimization and indexed relationships.

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.
- Built 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.

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 ($R^2 = 0.83$).
- Built 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.

CO-CURRICULAR ACTIVITIES

National Service Scheme (NSS), Volunteer

Aug 2022 - May 2024

- Completed 470+ hours of community service, actively contributing to social welfare and awareness campaigns.
- Led and coordinated multiple community-driven projects, including blood donation camps, sanitation campaigns, and educational workshops, benefiting 500+ individuals.
- Received official recognition from the Ministry of Youth Affairs and Sports, Government of India, for outstanding contributions to social service initiatives.