VIJAYAGEETHA V

Data Scientist | **Machine Learning Engineer** | **AI & Analytics Enthusiast** | **Software Developer Intern**

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PROFESSIONAL SUMMARY

Results-driven **Data Science and Software Development Intern** with strong academic foundation and hands-on experience in **machine learning, data analytics, AI applications, and backend systems**. Pursuing dual degrees: **BS in Data Science (IIT Madras)** and **BE in Computer Science**. Adept in **Python, SQL, Power BI, and TensorFlow**, with proven ability to build **data-driven models, automation pipelines, and analytical dashboards** that support decision-making and enhance operational performance.

TECHNICAL SKILLS

Programming Languages: Python, SQL, R, C, C++
Libraries & Frameworks: Pandas, NumPy, Scikit-learn, TensorFlow, Keras, Flask, Streamlit
Tools & Platforms: Power BI, Excel, Git, Jupyter Notebook, VS Code, Azure, AWS, Google Colab
Core Competencies: Data Analytics, Machine Learning, Deep Learning, Data Visualization, ETL Pipelines, Model Deployment, Cloud Integration, API Development, Feature Engineering, MLOps
Soft Skills: Problem-Solving, Analytical Thinking, Communication, Collaboration, Time Management, Adaptability

EDUCATION

Indian Institute of Technology Madras	*2022–2026*
BS in Data Science and Applications	*Chennai, Tamil Nadu*
St. Joseph's College of Engineering and Technology	*2022–2026*
BE in Computer Science and Engineering	*Thanjavur, Tamil Nadu*

PROJECTS

Analyzing Customer Behaviour to Optimize Stock Levels   **2024**
Built demand forecasting models using regression techniques, reducing overstock by 15%.
Designed Power BI dashboards for sales and customer trend visualization.
Tech: Python, Power BI, Excel, Data Analytics, Predictive Modeling, Visualization.

Machine Learning Regression Project   **2024**
Developed regression pipelines to predict user engagement, improving accuracy by 12%.
Optimized preprocessing, feature selection, and hyperparameter tuning processes.
Tech: Python, Pandas, NumPy, Scikit-learn, Model Evaluation, EDA.

Quiz Master App   **2024**
Created a full-stack quiz application with analytics dashboard and REST API integration.

Enhanced performance by 20% through SQL query optimization and modular Flask backend.
Tech: Flask, SQLite, HTML/CSS, JavaScript, REST API, Data Analysis.

Multilingual Emotion Detection   **2025**
Developed CNN-based deep learning models for multilingual speech emotion recognition.
Achieved 85% accuracy using MFCC feature extraction and model fine-tuning.
Tech: Python, TensorFlow, Keras, Librosa, Deep Learning.

WORK EXPERIENCE

AI Intern – Codec Technologies (AICTE & ICAC Approved)   **Jan 2025 – Present**
Designed NLP and speech recognition models using TensorFlow and Transformer architectures.
Improved inference speed by 18% through efficient model training and deployment on Azure.
Collaborated with the software team to integrate APIs for accessibility-focused AI tools.

Python DB-Connection Intern – Codec Technologies   **Jun 2024 – Aug 2024**
Automated ETL workflows for data extraction and transformation using Python and SQL.
Reduced report generation time by 30% through automation and optimized query structures.
Implemented reusable Python scripts for data validation and pipeline monitoring.

CERTIFICATIONS

Generative AI in Action – IBM SkillsBuild
Robotic Process Automation (RPA) – Naan Mudhalvan Program (UiPath CSR)
Foundations of Data Science & **Diploma in Data Science and Programming** – IIT Madras
AI using Azure – IITM BS Program
Speech Recognition Techniques – GUVI, TN Skill Development Corporation

ADDITIONAL ACTIVITIES

Hackathons: Participated in *Smart India Hackathon (SIH 2024, 2025)* and *Aether HackConquest*, building AI-driven and data-centric prototypes.
Volunteer: Assisted in organizing *IIT Madras Educational Fair 2024*, conducting technical sessions and guiding prospective students.