GOKUL V
AI DEVELOPER | ML, NLP, OPENCV & AGENTS

CONTACT

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TECHNICAL SKILLS

- **Core Domains:** Machine Learning | Deep Learning | Generative AI | Data Science
- **AI Frameworks & Tools:** YOLO | GNN | LLM | NLP | MCP
- **Programming Languages:** Python | Java (Basics) | C (Basics) | C++ (Basics)
- **CS Fundamentals:** Data Structures & Algorithms (Basics)
- **Web Development:** HTML | CSS | WordPress | Wix
- **Design & Tools:** Canva | Figma | Photoshop
- **Soft Skills:** Leadership | Creativity | Team Collaboration

PROFILE

Motivated **B.Tech Artificial Intelligence and Data Science** student at Bannari Amman Institute of Technology with a strong passion for **Machine Learning, Deep Learning, Generative AI, and Data Science**. Dedicated to exploring **AI-driven problem-solving, developing real-world intelligent systems**, and continuously enhancing my technical expertise.

EDUCATION

Reliance Matric Higher Secondary School, Erode   (2023 – 2024)
12th Grade – 82%

Bannari Amman Institute of Technology, Sathyamangalam
B.Tech – Artificial Intelligence and Data Science   (2024 – 2028)
CGPA: 7.77

HACKATHONS & ACHIEVEMENTS

FIESTAA'25
- Won a **first price** with **cash** award in paper presentation at KPR institute of technology

HackXelerate 2025 – Finalists
- Created an **AI-powered Mental Health Support Platform** for early emotional support and detection.
- Showcased teamwork and innovation before national judges.

SheHacks'25 – 1st Place (KPR Institute of Engineering & Technology)
- Built an impactful tech solution in a **24-hour coding marathon** organized by IEEE WIE.
- Honored for creativity, collaboration, and innovation.

MOBILITYX 2.0 – 1st Prize (₹20,000)
- **National-level 24-hour hackathon** testing innovation and endurance.
- Developed an **AI-based Traffic solution** with team **AI Clashers**.
- Strengthened teamwork, resilience, and rapid problem-solving under pressure.

Leadership Role
- Serving as **Vice Chairman**, **IEEE Student Branch**, Bannari Amman Institute of Technology

EVENTS PARTICIPATED

BIGBANG - THE GREAT ROTARY INNOVATION CHALLENGE   2024-JUN
- Appeared as Finalist on June 29, 2024.

VARNAM 2025 - KARPAGAM INSTITUTE OF TECHNOLOGY   2025-FEB
- Appeared as Finalist on June 29, 2024.

PROJECTS

Printed Invoice Extractor Webapp
- Built a full-stack solution to extract structured data from invoice images/PDFs using OCR (Tesseract), advanced regex parsing, and output to CSV. Demonstrates end-to-end pipeline from image processing to structured export.

Text-to-Image Diffusion Model
- Implemented a generative AI model to convert textual prompts to images using diffusion techniques, showcasing advanced deep learning, computer vision, and creative ML applications.

Text Embedding Extraction (CLIP/BERT)
- Developed a notebook for extracting rich text features with CLIP and BERT, enabling semantic search and embedding-based NLP workflows.

Fake News Detection with Transformers
- Created an end-to-end machine learning pipeline for classifying news credibility using transformer models, focused on real-world deployment and data integrity.

Sign Language Detection
- Developed an AI model to detect and interpret sign language gestures from images using deep learning, advancing accessibility and assistive technology.

AI Smart Traffic Project
- Designed and implemented a traffic monitoring system using computer vision and AI, with automated detection and smart analytics for urban mobility solutions.

Face Emotion Recognition (CNN)
- Engineered a convolutional neural network to classify human facial emotions, demonstrating advanced skill in deep learning and computer vision.

Invoice/Text Extraction Tools (OCR Gemini, Tesseract OCR)
- Multiple projects focusing on robust optical character recognition for printed and handwritten text, including integration with CSV exports and frontend app development.

Flask Insurance Predictor
- Developed a web application for insurance risk prediction utilizing Flask and deployed ML models, highlighting web integration with data science.

End-to-End ML Pipeline with MLflow
- Constructed and tracked a full machine learning workflow using MLflow, illustrating pipeline management and model lifecycle best practices.

Retail Transactions Preprocessing and Analysis
- Performed full-scale exploratory data analysis and feature engineering on retail transactions data for insight and predictive modeling.

Declaration

- I (GOKUL V), declare that all the details provided above are true to the best of my knowledge.