

# JANAHAN K

## PROFILE

A driven B.Tech Computer Science student passionate about full-stack development, data analytics, and AI-driven solutions. Adept in Python, SQL, and web technologies with a strong foundation in predictive modeling and data-driven insights.

## CONTACT

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## SKILLS

- Python, Java, JavaScript, SQL, HTML/CSS
- Pandas, NumPy, Seaborn, Matplotlib, Power BI
- TensorFlow, Streamlit, Git, React, Phpadmin, MySQL

## CERTIFICATIONS

- OpenAI GPT-3 for Developers – INFOSYS
- Deep Learning for Developers – INFOSYS
- Generative Model for Developers – INFOSYS
- Big Data – INFOSYS
- Power BI for Business Professionals – INFOSYS
- Multidimensional Data Modeling – INFOSYS
- Data Mining – NPTEL
- Cloud Distributed System – NPTEL
- Web Development with HTML and CSS – Alison
- Poster Presentation – IBM

## EDUCATION

B.TECH IN COMPUTER SCIENCE. *Kalasalingam Academy of Research and Education* **2021–2025**  
◇ CGPA: 6.5/10

HIGHER SECONDARY. *NSVV Matric Hr Sec School* **2020–2021**  
◇ Percentage: 85%

## PROJECTS

### AI-BASED DIABETIC RETINOPATHY CLASSIFICATION USING CNN SEGMENTATION **Jun 2025**

- ◇ Built an AI tool using CNN and Watershed to detect diabetic retinopathy from retinal scans.
- ◇ Achieved 90% accuracy with real-time prediction via a simple web interface.
- ◇ Used open-source tech for low-cost, scalable screening in remote areas.

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### NON-INVASIVE ANEMIA DETECTION USING DEEP LEARNING **May 2025**

- ◇ Built a real-time, non-invasive anemia detection system using DenseNet121, Mediapipe and Roboflow.
- ◇ Achieved 96.95% validation accuracy on palm, eyelid, nail images from a dataset of 12,818 samples.
- ◇ Deployed as a Flask-based web app with live image input via IP webcam

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### AI SYSTEM FOR PERSONALIZED FINANCIAL ADVICE **Jan 2025**

- ◇ Developed an AI-powered advisor bot using NLP and ML for budgeting and investments.
- ◇ Built an interactive web platform for real-time expense tracking, goal setting, and financial insights.
- ◇ Implemented secure data management practices to protect sensitive financial information.

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### REAL ESTATE PREDICTIVE ANALYTICS WEB APPLICATION **Nov 2024**

- ◇ LSTM-based property price forecasting using government and inflation data. 95% accuracy. ◇ Designed an interactive UI for investors and buyers to gain real-time market insights.

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### SOCIAL MEDIA SENTIMENT ANALYSIS **May 2024**

- ◇ Built an NLP-powered sentiment analysis tool for text, reviews, and images.
- ◇ Implemented a Streamlit-based interactive web dashboard with real-time visualization.
- ◇ Analyzed social media trends to generate user behavior insights.

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### FLOWER SPECIES IDENTIFICATION **Dec 2023**

- ◇ Developed an AI-based image classification model with 97% accuracy.
- ◇ Integrated YOLO v4 for real-time flower species detection
- ◇ Optimized deep learning algorithms to enhance model efficiency.

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## ACHIEVEMENTS

- Non-Invasive anemia detection system with 96% accuracy published in IEEE.
- Real estate app with 95% accuracy presented at ICITSM.
- Flora classification model (97%) accepted at ICETET conference.