# Deepak Kumar

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[Professional webpage](#)  |  [LinkedIn](#)  |  [GitHub](#)  |  [Leet Code](#)

## Education/Academic Background

| School Name | Department | Percentage | Year |
|---|---|---|---|
| KPR Institute of Engineering and Technology – Anna University | Bachelors in Computer Science Specialization in AIML | 82 | 2022-2026 |
| KONGU  Matric Higher Sec School , Tirupur , Tamil Nadu | Computer Science with Mathematics | 86 | 2020-2022 |

## Research Project Experiences

### SLOUCHOMETER - POSTURE CORRECTION DL MODEL                              *Sep 2024*
*(4 times National and International Winning Project)*

- Created and built a machine learning-based  posture correction system based on computer vision algorithms to detect and alert slouching behavior in real-time for health enhancement.
- Incorporated advanced pose estimation techniques (Media Pipe) to analyses body alignment. These techniques yield high accuracy concerning detection of poor posture and slouching severity
- Designed an intuitive user interface and alert mechanism for action-oriented feedback-an increase in engagement with users and awareness of healthy postural behavior
- Developed PowerBi Dashboard for effective way to correct the user posture performance with attractive visualization

### DRIVER DROWSINESS DETECTION USING AZURE VISION                              July 2024 - Sep 2024

- Developed a drowsy driving detection system using Azure Custom Vision and CNN architecture
- Achieved 99.3% accuracy in real-time detection of driver fatigue, enhancing road safety applications
- Published in 4th ICSES International Conference on Sustainable Expert Systems

### Tuberculosis Detection Using Deep Learning Algorithms                              DEC 2024 – Present

- Mentoring by Hong Kong University Profess Dr. Tsz Ho Kwan

## Intern Experiences

Orion Innovation, CBE , INDIA
Full Stack Developer – Intern
01/2024 – 02/2024

- Developed a data analysis website for an Australian Football League, improving performance analysis accuracy by 20%.
- Designed an Angular-based UI that reduced onboarding time by 50%, boosting team productivity.
- Created an interactive KPI dashboard, enhancing project tracking efficiency by 30%

*Address : Hanudev Info Park,, 6th floor, D block Udyam Palyama Road, Coimbatore, Tamil Nadu, 641028, Coimbatore, India*

## Skills

- *Technical Skills* : Artificial Intelligence, Machine Learning , Deep Learning Algorithms , Python , R Programming, Java , HTML , CSS , NLP , Computer Vision
- *Frameworks* : Pandas, NumPy, Matplotlib, Seaborn, Media pipe, Keras, TensorFlow, ScKit-learn, Flask
- *Tools* : VS code, Jupyter Notebook, Google Colab, Dev C++,  Online Compiler
- *Soft Skills* : Time management , Good Communication , Quick Learn , Team Work ,

## Awards/Honors/Grants/Fellowships

| AWARD | EVENT & LOCATION | PRIZE |
|---|---|---|
| Winner - Idea pitch | IEEE RMC'24 – IISc Bangalore | Rs,40,000/- + Certificate + Shield |
| Innovesense Project Presentation 2025 | KPRIET | Rs,15,000/- seedfund + Certfificate |
| Winner – Hackathon and Ideation Competition X 3 times | CIT , KGISL , SRIKRISHNA COLLEG | Rs.6000/- + Certificates + Shield |

## Publications

1.  Authors : Dr. Kothai G, Mr. PandiyaRajan , Mr. Deepak Kumar R, Mr. Nimalan.
    Title : "*Detecting Drowsy Driving Through Eye Closure and Yawning : Azure Custom Vision System.*"
    Details regarding publication: *https://ieeexplore.ieee.org/document/10762996*
    Published in *IEEE Xplore*

## Languages

| English | Tamil | Malayalam |
|---|---|---|

## Certifications

| Course | Grade |
|---|---|
| Crash Course on Python - Google | 95 |
| AI For Everyone -Deeplearning.ai | 96.25 |
| Artificial Intelligence on Microsoft Azure | 85 |
| AWS Academy – Machine Learning Foundations | Badge |

## Volunteering Activities

*IEEE (INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS)* - IEEE Technical Lead - KPRIET Student Branch • IEEE Public Relations Officer • IEEE Design team Lead • IEEE Madras Section SAC Committee Member • Organizing Events • Master of Ceremonies (MC) • Event Planning and Execution

Declaration : I solemnly declare that the information in this resume is true to the best of my knowledge