

# Yuvaraj Tankala



Email: yuvarajcoder@gmail.com  
Mobile: +91-8074010350  
LinkedIn: Tankala Yuvaraj  
GitHub: yuvaraj-06  
Hackerrank: T\_Yuvaraj

## EDUCATION

- **SRM University, AP – Amaravati** Amaravati, India  
*Bachelor of Technology in Computer Science; CGPA: 9.68/10.0* July 2019 – May 2023

## EXPERIENCE

- **Oureye.ai** Bangalore, India  
*Computer Vision Startup* February 2021 - Present  
**Responsibilities:**
  - Developing computer vision models for retail/industry use cases.
  - Developing Fast APIs for backend support.
  - Integrating cloud services to support the existing computer vision models, handling data transfer.
- **Pianalytix** Hyderabad, India  
*EdTech Company* December 2020 – January 2021  
**Responsibilities:**
  - Creating end to end python-based projects with proper documentation and videos for learners.
  - Deploying the projects which mainly involves Django framework.

## ACHIEVEMENTS

- **Gold Medalist - Research Day 2021 and 2020:** Secured Two Gold medals from Sri. S. Somnath, Director, Vikram Sarabhai Space Center (VSSC) in Research Day 2021 for artificial intelligence, internet of things fields.
- **Rakuten:** Secured a 5th position, a international Hackathon organized by Rakuten I.
- **Datastax Astra:** Secured a 4th position, a international Hackathon organized by Datastax Astra.
- **Hacker rank:** Secured gold medal in python(6 stars), Silver medal in C programming language(4 stars).
- **Def Hacks | Global 2.0 :** 2<sup>nd</sup> Runner up, a global hackathon with participants from different countries.
- **Hack The Build :** Runner Up, a IIT Jammu's annual hackathon.
- **SIH(Smart India Hackathon) :** Short listed for Internal Hackathon 2020 from SRM-AP.
- **HACKNITR 2020:** Secured 2nd prize at HACKNITR, a national level Hackathon organized by NIT Rourkela.

## SKILLS

- **Programming Languages:** Python, C/C++, Java.
- **Relevant Libraries:** NumPy, OpenCV, Scikit-Learn, Pandas, Matplotlib.
- **Web development:** Django, Fast API, JavaScript, HTML, CSS, Web Scraping.
- **Database:** SQL, Datastax Astra DB, CQL.
- **AI/ML :** Machine Learning, Deep Learning basics, Image Processing, Reinforcement Learning.
- **Code Editors:** VS Code, PyCharm, Eclipse, Anaconda Navigator, Google Collaboratory.
- **Cloud Services:** Amazon Web Services – (S3 Bucket, Rekognition), Azure- (Computer Vision).
- **Deployment Tools:** Heroku, Python Anywhere.
- **Additional Skills:** Cloud Deployments, Telegram/Twilio Chat Bot, Notion, Jira, Git Hub.

## Research Work

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- **INDICON 2020** : Research paper titled "Demonstrating Low-Cost Unmanned Aerial Vehicle for anti-Poaching" has been published at the 17th IEEE India Council International Conference (INDICON) 2020 ,at this [link](#) ISBN: **978-1-7281-6917-0**.
- **IEEE Transactions on Cognitive Communications and Networking (TCCN) [ Accepted]**

Working as a research assistant with an IIT Kanpur professor on the Low Power Wide Area Network (LPWAN) using reinforcement learning for improving Quality of services, a research field topic, It is going to be published in an IEEE transaction(Comsoc).

- **IJARET 2021** : Research paper titled "A Multi Purpose Artificial Intelligence Based Attentiveness Monitoring System" has been published at [link](#),ISSN Online: 0976-6499

## Projects

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- **Artificial Intelligence based online assessment and learning platform**

*[Education Themed Project]*

◦ *We build an Artificial Intelligence based online assessment and learning platform combined with a user-friendly and efficient python desktop app/Django dynamic webapp that helps you keep track of your progress in online assessment with proctoring and also have a feature to summarize and translate to 100+ languages.*

- **Content-based image retrieval**

*[Image Processing Themed Project]*

◦ *In the proposed scheme, the meaningful objects will be identified from the query image by using you only look once (YOLO) object detection techniques and the quantized histograms of each of the object categories and will be used during feature matching to retrieve the related images from the large image pool.*

- **A.I.D COPTER**

*[Health Themed Project For COVID-19]*

◦ *Drones are believed to be a “game-changer” for fighting this COVID-19 pandemic. These aerial robots have a special kind of aura for themselves. During this situation, where the globe is in a strict lockdown, my team has come-up with a few cardinal ideas. These ideas when implemented in the real world will bring up the change we wanted.*

- **Energy-Efficient and QoS-Enhanced LPWAN IoT Networks Using Q-Learning Based Data Routing**

*[Low Power Wide Area Network Themed Project]*

◦ *Novel method of multi-hop data routing over low-power wide-area network for IoT applications using Q learning a reinforcement learning approach.*

- **Machine Learning Projects**

*[Machine Learning Project]*

- *GRE score Prediction and integrating with a dynamic webapp.*
- *Application of time series forecasting in retail industries.*
- *Classification of news feed and applying NLP to summarize the articles.*