

GANESH RAM KESARLA SHANTHARAM

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EDUCATION

Indian Institute of Technology Roorkee (July 2011 - May 2015)

Relevant Coursework (GPA 9.6/10)

Computer Systems & Programming, Electrical Science, Fundamentals of Electronics, Mathematics-1, Mathematics-2, Numerical Methods, Optimization Techniques, Engineering Computation, Process Automation, Physics-1, Physics-2

SELECT PROJECTS

Facial Analysis - Emotion Recognition

Technologies - Tensorflow, Python, EC2-AWS

This project lays the foundation for a business idea: “capturing natural expressions of people while watching videos”. Here, a convolutional neural network is trained to output certain confidence across a set of emotions, for a given input image.

Smart Office (IoT @ IITR)

Technologies - Raspberry Pi, Arduino, Zigbee, Apache, PHP, JS

In order to reduce wastage of electricity at the student activity center, built a wireless network of sensors and actuators to monitor and control all the appliances over a web application. The sensor data retrieved in real-time was fed into a learning algorithm to understand the usage pattern and control the devices autonomously. The energy consumption decreased by 12%.

WORK EXPERIENCE

November 2017 - August 2018 | Freelancer

Elicited Requirements, Designed Product Architecture, and Built the complete IoT and Web stack for DigiB that broadcasted location-based ads in tourist buses; Worked with BeatRoute, a logistics startup to develop a demand predictor (DNN) for better inventory management of local grocery stores.

May 2017 - September 2017 | Software Engineer, CloudxLab

As a Full Stack Developer, built applications in Django, Angular & Bootstrap; Built a code evaluation application that involved a browser-based terminal, SSH Client, and a cloud-based REPL environment.

September 2016 - April 2017 | Founder & CEO, Entrochef

Entrochef is an online marketplace for on-demand home-cooked meals. The model was similar to Uber and Airbnb but in the food space. Based on the user's location, home-cooked meals in the vicinity could be viewed and ordered. (Transformed the idea into → ~160 daily users).

May 2015 - September 2016 | Software Engineer, AUTONINJA

Caused a ~10% increase in the revenue per client by solving a problem pertaining to parallel logins; As a Full Stack Developer, carried out requirement analysis with stakeholders and built end to end web applications involving Webhooks, Websockets, Audio Streaming, Internet Telephony, Authentication, Design of Databases, APIs, UI & UX; Owned 2 core features; Conducted Technical Interviews & Training Sessions for Freshers.

May 2014 - July 2014 | Computer Vision Internship at QORQL, Digital Healthcare Startup

Direct report to the Founder - Researched and developed edge detection algorithms; Designed and built a mobile scanner app on android. Developed a custom heuristic algorithm to extract words from scanned images. **Technologies - Matlab, OpenCV, Java (Familiar)**

June 2013 - July 2013 | Internship at BHEL, Electronics Division

Modeled and simulated solar cells. Implemented & analyzed the performance of “Perturb & Observe” and “Incremental Conductance” MPPT algorithms. **Technologies - Matlab (Simulink)**

SKILLS: Python, MySQL, Javascript, Matlab, Shell, Django, MEAN, Product Design and Engineering

(Please refer to my [website](https://ganeshramks.github.io) for a comprehensive list of projects, accomplishments and leadership experience.)

ACCOMPLISHMENTS [Child Prodigy, Competitions, Academic Awards]

LEADERSHIP EXPERIENCE [Secretary of Artificial Intelligence Society, Class Representative, Teaching Assistantship]

SPORTS

Enjoy skating and have been a prominent member of the In-line skating team of HEC at IIT Roorkee during 2013 and 2015