

Abhishek Kumar Singh
Anand Puram, Rajendra Nagar.
Gorakhnath, Gorakhpur - 273001

Email-id : singhsterabhi@gmail.com
+91 - 7503024739 , singhsterabhi.tech

ACADEMIC DETAILS

| Program | Institute | Year | % Marks |
|-----------------------------------|---|------|---------------|
| B.Tech. in Electrical Engineering | JSS Academy of Technical Education, Noida | 2018 | 62.4(6 sems.) |
| XII/ISC | St. Joseph's High school, Gorakhpur | 2013 | 88 |
| X/ICSE | St. Joseph's High school, Gorakhpur | 2011 | 86.28 |

TECHNICAL SKILLS

- **Languages & Tools** (C, Python, JavaScript, MATLAB), **Design** (Photoshop, Illustrator)
- **Development** (Django/ Angular/ Firebase- Fullstack web development. ElectronJS/ NodeJs- Desktop app, RPi/ Arduino- Embedded Systems). Firebase- Integration with iot devices(RPi).
- Machine Learning libraries- Tensorflow, scikit-learn. Computer vision - OpenCV. Other Python libraries- Numpy, Scipy, Matplotlib.

RELEVANT COURSEWORK & PROJECTS

- **DS & Algorithms, Machine Learning, Computer Vision, Embedded Systems, Signals & Systems**
- Recipient of Google India Challenge Scholarship: Mobile Web (*Udacity*) (2018). Learnt the complexities of the web and development on the mobile platform.
- Web, Cloud, Open Source and Mobile app Development workshop. (*JSS Noida, June'15*)
- **Wireless Home Security and Automation system.** (*ongoing*) B.Tech. project. Development of a security and wireless control system for appliances and detection of intruders, etc., remotely.
- Simulation of Fuzzy Logic controller. (*2016-17*) Simulated the use Fuzzy Logic as a controller in a system.
- **Web Development.** Developed multiple websites ranging from landing pages to multifunctional platforms such as for blogging, quiz portals.
- Line following Robot. (*Zealicon, 2015*). Tram. (*Zealicon, 2016*)

PROFESSIONAL EXPERIENCE

- **CNDE, IIT Madras** (Research Project) (*Guide: Prof. Prabhu Rajgopal. , June'17 - July'17*)
 - Inline inspection of gas and oil pipelines using various **image processing** techniques using an automated droid working on rpi.
 - Implementation of **Image dehazing, enhancement, Mosaicing and segmentation** for detection of leaks welds and corrossions.
- **Samshek Fashion Pvt. Ltd.** (R&D) (*Sept'16 - May'17. Aug'17 - Nov'17*)
 - Research and Development of an semi-automated robotic sewing machine.
 - Recognition of stitching patterns and cloth pieces using **computer vision** to be stitched. Development of a desktop **GUI** as interface for the system.

POSITIONS OF RESPONSIBILITY

- **Google Developers Group JSS Noida.** (*Organizer/Developer. Feb'16 - present*). Conducted various workshops, talks and events on Open Source and other technologies.
- **Oorja Electrical Society & Electrique Newsletter.** (*Creative Head. Sept'15 - present*). Designing and publishing of a newsletter for electrical engineering department every semester.
- **Core team Committee member, 2018.** Responsible for organizing Zealicon(Techno-Cultural Fest, JSS). Co-ordinated many technical and cultural events.

EXTRA-CURRICULAR ACTIVITIES

- **Technical.**

- **ISIE hybrid vehicle challenge 2017-18.** Member of team Octavius. Won the title of best endurance, best acceleration, best cross pad & best electric HVC 2017-18. I built electronics module for automatic starting with RFID.
- **GCET Hackathon 2017.** Won **1st place** among 30+ teams. Built a real time classroom feedback system using **computer vision** and **sentiment analysis**.
- **Smart India Hackathon 2017.** Competed against 50,000+ students to participate in the finals of the world's biggest hackathon by Govt. of India. Built a real time surveillance system using **computer vision** for BARC.
- **E-yantra 2015, 2016.** Participated in the the robotics competition organised by IIT-B & MHRD, India for two consecutive years. Developed automated robots to complete various tasks using **computer vision** and **embedded programming**.
- Zealicon 2016. Won **2nd place** in MATLAB programming and fullstack website development events.

- **Sports.**

- Participated and won in several inter-school and intra-school Basketball tournaments.