SIDDHANT AGARWAL

Undergraduate Student | NIT Kurukshetra
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Education

National Institute of Technology Kurukshetra   2017-2021
- B.Tech. in Electronics and Communication Engineering, CPI: 7.28 / 10.00 (Upto 4th Sem)

Delhi Public School Ghaziabad, Ghaziabad   2015-2017
- CBSE Intermediate/+2, Percentage: 93 %
- CBSE Matriculation, CGPA: 10.00 / 10.00

Projects

Image Processing Robot -Computer Vision, Python, Open – CV   Winter 2018
Project Part of Pixelate Event of Technex'19   IIT BHU (Varanasi)
- An Autonomous Bot solves a given Puzzle and reaches the spot following the shortest path.
- Using **Backtracking algorithm** method, we estimated shortest path between neighbouring arrays in the clip
- Separating different colour by utilizing an adaptive thresholding method on the automatically cropped matrixes.

Smart Mess Tally: — Web Application   Winter 2018
Techspardha'18 Prime, Hackathon   NIT Kurukshetra
- Developed a web application that digitalizes the college mess.
- The Application Automatically generates the Monthly mess bill and the students receives the bill via message using Twilio API.

Blogging Web Application — Development, Python   Summer 2018
Project Link: https://github.com/GrtSid/django-siteone   NIT Kurukshetra
- Developed a web application which could be used by people for blogging.
- The users can login to the application and express their views related to any topic and the readers can thereby upvote the blogs.
- The application is developed using HTML, CSS and Django.

Smart Garbage Bin — Internet of Things, Web Application   Winter 2018
Project Part of Productathon, E-summit'19   IIT Roorkee
- Developed a working prototype of a garbage bin using Arduino, ultrasonic and IR sensor which indicates garbage level of bin on web interface
- Using **Dijkstra's shortest path algorithm,** we provided the driver of garbage truck with optimized path to follow for the collection.

Object Detection Using YoloV2 — Deep Learning, TensorFlow, Computer Vision   Summer 2019
Project   NIT Kurukshetra
- Implemented the Convolutional Neural Network to detect objects in images using the YoloV2 algorithm.

Internships and Work Experiences

Back-End Development Internship, Staqu Technologies (December 2019 – Present)

Staqu, an AI startup, is crunching data and smoking GPUs to process data for recommendation, search, and analytics. My day-to-day responsibilities includes:

- Design of modular server components for Web applications
- Developing and scaling REST APIs
- Rapid prototyping of applications based on requirements
- Scaling applications in production based upon user load
- Converting research modules into scalable products

Tools / Technologies Used: Python-Django, Postman, MySQL, Redis

Back-End Development Internship, Paralleldots Inc. (May 2019-August 2019)

ParallelDots is AI Startup that provides powerful do-it-yourself tools and customised solutions to turn your organisation into an AI powerhouse. My day-to-day responsibilities includes:

- Building server-side logic that powers APIs
- Writing **REST APIs** using **Python** Flask framework
- Working on large scale web crawling
- Collaborating with the data science team to build data pipeline

Tools / Technologies Used: Python-Flask, Postman, MongoDB, MySQL, Redis, RabbitMQ

Awards & Scholastic Achievements

- Secured **All India Category Rank in top 10%** in **JEE Advanced** among 220,000 aspirants. (2017)
- Secured **All India Category Rank in top 1%** in **JEE Main** among 1.2 million aspirants. (2017)
- 100% Scholarship Holder in Higher Secondary Education.
- Awarded Certificates of Merit for excellent performance in academics from 6th to 12th standard.
- Secured 1st Position in MicroXplorer event, a national level competition in NIT Kurukshetra (TechSparda'18).
- Secured 1st Position in Simulator event, a national level competition in NIT Kurukshetra (TechSparda'19).
- Secured 1st Position in Pixar event, a national level competition in NIT Kurukshetra (TechSparda' 19).
- Secured 95 percentile score in National Science Olympiad conducted by Science Olympiad Foundation (SOF).(2015)

Technical Skills

Programming	C++, C, Python, SQL
Tools & Technologies	HTML, CSS, MS office, Django, Bootstrap, Flask, Postman, RabbitMQ, MongoDB, Redis
Data Science	TensorFlow, OpenCV, Scikit-learn, Colab, Jupyter Notebook
Software	Git, MATLAB, Arduino IDE
Operating System	Windows, Linux

Positions of Responsibility

Member/Associate   Aug 2019 - Present

Industry cell, NIT Kurukshetra

- Responsible for managing the club's Activities and organizing events to develop the Entrepreneurial culture among freshmen.

Group representative Recent Technologies   Aug 2018 - Present

EmR (Embedded systems and robotics club) CLUB, NIT Kurukshetra

- Responsible for conducting various workshops, talks and hands-on sessions for the students in their junior and sophomore year.
- Accountable for ensuring Tech lead to students' participation and performance in inter-college competition.