

# Aniket Pathak

Final Year undergraduate student at NIT Delhi

Quick learner with critical thinking abilities, proficient in C++ and having experience in Web Development, Databases, and Machine Learning, looking to start a career as a software engineer in a reputed firm driven by technology.



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## EDUCATION

### B. Tech (Electrical & Electronics Engg.) National Institute of Technology, Delhi.

2017 - 2021

New Delhi, India (GPA : 7.42)

### Kendriya Vidyalaya Pushp Vihar New Delhi (CBSE)

Examination

- AISSC Examination (Class XII - 2016) - 89.2%
- Sec. School Examination (Class X - 2014) - 10.0 CGPA

## PROJECTS

### DigiCharcha [↗](#)

- A multi-client Chat Web App built with Socket.io.
- WebSockets provide a bi-directional communication channel between a client and a server.
- Technologies and frameworks: HTML, CSS, Node.JS, Express, EJS, Socket.io.

### URL Shortener [↗](#)

- URL Shortener for transforming long, ugly links into nice, memorable, and trackable short URLs.
- Technologies and frameworks: HTML, CSS, Node.JS, Express.JS, EJS, Mongoose.

### Wind Power Scenario Generation

- Deployed and optimized ARIMA model on Kaggle Wind Dataset.
- Technologies: Python, sklearn.

### Ship and Aircraft Detection in Satellite Images

- Implemented YOLOV3, Faster-RCNN and SSD and achieved 55.3, 59.1 and 45.4 COCO mAP@.5 for the respective models.
- Technologies: Pytorch, DarkNet, Tensorflow, Python.

### Complete end to end Image Classifier [↗](#)

- Trained a CNN based ResNet50 model on Imagenet Dataset.
- Deployed on Heroku using Flask.
- Technologies: Python, TF, Keras, Flask, Heroku.

### T&P Website NITD (Front-end) [↗](#)

- Designed complete Front-end of the website.
- Technologies: HTML, CSS, JavaScript, Bootstrap.

### Other Projects

- Web Development: Simon Game, Drum Kit, Dice Game, Countdown Timer.
- Machine Learning: Customer Churn Prediction, Big mart sales prediction, House price prediction.
- Electronics: Automatic feed dispenser for fish farming, Automatic irrigation / plant watering system, Line follower robot, RoboWar robot.

## SKILLS

C++

Python

JavaScript

Data Structures

Web Development

Machine Learning

OOPS

Git

Node.js

MySQL

HTML/CSS

Matlab

LaTeX

## INTERSHIPS

Indian Institute of Remote Sensing(IIRS), ISRO (2020)  
*Ship and Aircraft Detection in SAR and Optical Satellite Images using Deep Learning Techniques*

Pronto Tel Pvt. Ltd. (New Delhi) (2019)  
*Bidirectional visitor counter using 8051 Microcontroller*

Solid State Physics Laboratory, DRDO (New Delhi) (2019)  
*Design and development of Automatic Positioning System for the movement of transducers in Acoustic Tank*

## CERTIFICATIONS

Web Development - Udemy

Neural Networks and Deep Learning - deeplearning.ai

Machine Learning - Analytics Vidya (Internshala)

Spatial Data Science: The New Frontier in Analytics (ESRI)

## LANGUAGES

English

Full Professional Proficiency

Hindi

Limited Working Proficiency

German

Elementary Proficiency

## POSITIONS OF RESPONSIBILITY

Executive Member of Technical Club NIT Delhi.

Taught in workshops for Juniors on Robotics and Web Development.

Member of Yoga Team NIT Delhi.