

## PERSONAL INFORMATION

Nilotpal Pramanik

Gender Male | Date of birth 4 May 1999 | Nationality- Indian

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## AREAS OF INTEREST

Machine Learning, Computer Graphics, Robotics

## EDUCATION

2016 – 2021

**Dual Degree - Bachelor and Masters of Technology in Information Technology with Specialization in Robotics**

Indian Institute of Information Technology, Allahabad, India

**CGPA:** 8.33/10

2014 – 2016

**Higher Secondary**Ramakrishna Mission Vidyalaya, Narendrapur, Kolkata, West Bengal **Percentage:** 92.60

2008 – 2014

**Secondary**Ramakrishna Mission Vidyapith, Purulia, West Bengal **Percentage:** 92

## PROJECTS ON INTERNSHIPS

Summer 2018

**Route Analyzer**Summer Internship at Indian Institute of Technology(IIT), Guwahati under Supervision of Dr Prithwijit Guha, Department of Electronics and Electrical Engineering (EEE). **Skills:** Java | XML | CSS | HTMLDevelop an **geosocial Android application to build better route map for rural areas**. The app captures live route data – distance, time taken, maximum velocity and current velocity from any user cycling in rural areas with the application running in their mobile phone.

It also records background audio data to predict the environment and the road condition.

Finally the route data is visualized and updated real time on google map.

## PROJECTS ON HACKATHONS

Augmented Reality (AR)

**Pokemon App****Project for 'IIITA Hacks 2016'**.3D fight game between two Pokémon characters created with Augmented Reality(AR) with respect to the Pokémon Cards, built on Unity3D. **Skills:** C# |Java | RPC | Objective C++- | Shader Lab **Team size:** 4 **Link:**<https://github.com/gooday451999/PokemonApp>

Artificial Intelligence (AI)

**Game -The Dark Chase****Project for 'IIITA Hacks 2017'**.This game is built in Unity3D involving game between AI bots and physical player in a 3D environment. **Skills:** C# | ASP **Team size:** 2 **Link:**<https://github.com/gooday451999/GameThe-Dark-Chase->

Chat Bot

**Movie & Tv Series Bot****Project for 'Hack In The North 2018'**.This is Facebook Messenger chatbot (domain based AI),built on HASURA, provides all information about movies, tv series asked by the users.**Skills:** Node.js | Express.js **Team size:** 2 **Link:** <https://github.com/gooday451999/hint18>

## SELF LEARNING PROJECTS

Machine Learning (ML)

**Realtime Multiple Color Detection Through WebCam**

Detection of Red, Blue, Yellow, Black, White Colors real time from WebCam live view

**Skills:** Python **Link:** <https://github.com/gooday451999/Multiple-Color-Detection>

Machine Learning (ML)

**Handwritten Digit Recognition**

Handwritten digit recognition using Python Libraries and finding the accuracy of detection.

**Skills:** Python **Link:**<https://github.com/gooday451999/Handwritten-Digit-Recognition>

Android App Development

**StudyMate**An android app to provide a digital library for IIIT,Allahabad students providing all kinds of study materials like pdfs, slides, video lectures, problem sets, last year question papers, lab records for each subjects of each semesters. **Duration:** May'17July'17 **Skills:** Java | XML

Cognitive Services

**Face Analyzer App**Detection of Faces from the photos and analysis of their emotions using Microsoft Azure Cognitive Services (Face API) **Skills:** Java | XML **Link:**<https://github.com/gooday451999/FaceApp>

## PROJECTS UNDER SUPERVISION

### Recommender System (RS)

#### Neighbourhood Based Recommender System

**Project Supervisor** Dr Ranjana Vyas. Recommender System, Semantic web and LOD based project. **Started:** April'18 **Progress:** Implemented the basic algorithm of this to determine the similar users in movie rating System. **Skills:** Java(for now)

### Natural Language Processing (NLP)

#### Sentiment Analysis using SVM on Twitter Data

**Project Supervisor** Dr Krishna Pratap Singh. Sentiment (Positive, Neutral, Negative) Analysis using Support Vector Machine (SVM) .**Started:** September'18 **Progress:** Dataset Collection through Tweepy and levelling of data using NLT. **Skills:** Python

## SEMESTER PROJECTS

### 5th Semester

#### Attendance Tracker & Analyzer

**Project for** Software Engineering (ISOE532C) Attendance Portal Management by digitally tracking the attendance details of the students **Skills:** Java Script | PHP | HTML- | CSS **Team size:** 4

### 4th Semester

#### Medicine Search App

**Project for** 'Database Management System (DBMS432C)' An Android App providing Medicines, corresponding price and location of the nearest Medical Stores for any diseases, searched by the user. **Skills:** Java | XML | PHP | MySql **Team size:** 3 **Link:** <https://github.com/gooday451999/MediCare>

### 3rd Semester

#### Cyber Credit Card System

**Project for** 'Object Oriented Methodologies (IOM332C)' Payment Gateway to make secure online transactions using Credit Card. **Skills:** Java | Swing **Team size:** 4 **Link:** <https://github.com/gooday451999/CyberCredit-Card-System>

### 3rd Semester

#### Virtual Memory Simulation

**Project for** 'Operating System (IOPS332C)' Virtual memory simulation based project. **Skills:** C **Link:** <https://github.com/gooday451999/vms>

## OPEN SOURCE PROJECTS

### Web Development

#### Open Code Collaborative

**Project for** 'OPENCODE 18' Collaborative Open Source Event in IIIT, Allahabad **Skills:** Java Script | CSS | HTML **Link:** <https://github.com/gooday451999/OpenCodeCollaborative->

## PROGRAMMING SKILLS

### Programming Languages

Java, C, C++, C#, Python

### Scripting Languages

Java Script(Node.js, Express.js, p5.js), CSS, HTML, jQuery, processing

### Frameworks

ASP, PHP

### DB Related

MySQL, PL/SQL

### Others

Prolog, CLISP, Latex, OpenGL

### Tools

Eclipse (Java), Code::Blocks (C++), Unity3D, Visual Studio, CodeBlocks (C), SublimeText, NetBeans (Java), PyCharm(Python), Oracle, MATLAB

## COURSE WORK

### Institute Courses

Object Oriented Methodologies(OOM), Operating System(OS), Artificial Intelligence(AI), Data Structure(DS) ,Microprocessor(MIP), Database Management System, Computer Visual Graphics, Calculus, Linear Algebra, Probability Statistics, Convex- Optimization

### Online Courses

Anroid App Advance(Udacity), Machine Learning (Edureka), Deep Learning (Edureka), Neural Network(Edureka), Internet of Things (Edureka)