SURAJ PRAKASH

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in www.linkedin.com/in/suraj597

EXPERIENCE

Scientific Software Developer
Vashishtha Research Private Ltd

📅 Dec 2019 – Present 📍 Trivandrum, India

PROJECTS

Lock-in amplifier for high sensitivity fluorometer
Dr. Harshal B. Nemade ,Dept. of EEE, IIT Guwahati

📅 July 2018 – May 2019 📍 Guwahati, India

- A lock-in amplifier is an extremely selective AC voltmeter. It can extract a signal of known frequency which is deeply buried in noise. It detects signal based on modulation at the known frequency.

Arduino based bluetooth controlled mobile Robot
Dr. Ramesh Sonkar , Dept. of EEE, IIT Guwahati

📅 Jan 2018 – May 2018 📍 Guwahat, India

- A robot that can be operated using an android App. The robot was controlled wirelessly through an android app using bluetooth module. The data received by the bluetooth module from the smartphone was fed as input to the arduino micro-controller.

Gender detection from speech analysis
Dr. Prithwijit Guha,Dept. of EEE, IIT Guwahati

📅 May 2017 – july 2017 📍 Guwahati, India

- Pitch based gender detection. We used auto-correlation as a pitch detection technique and K means as a classifier. The performance was increased after algorithm was implemented.

EDUCATION

B.Tech in Electronics and Electrical Engineering
IIT Guwahati, CGPA:7.01

📅 July 2015 – May 2019

Senior Secondary(CBSE)
Vidya Niketan,93.8%

📅 2015

Secondary(CBSE)
Sherwood school, CGPA:9.6

📅 2013

ACHIEVEMENTS

🏆 **KVPY 2014-15**
Obtained the National Research Fellowship scholarship by securing an AIR 181

🏆 **Selected in IISC Banglore**
Was selected for the Bachelor of Science (Research) Programme in IISC Banglore

🏆 **SCRA (UPSC)**
Reached up to interview level of SCRA (UPSC)

🏆 **JEE Advanced-2015**
Secured an All India Rank of 1919

STRENGTHS & SKILLS

Control systems | Machine Learning
HTML,CSS,JAVASCRIPT | Python
Numpy | Pandas | Django | Tkinter
C++ | Qt

LANGUAGES

Python ●●●●○
c++ ●●●○○

COURSEWORK

- Pattern recognition and machine learning
- Embedded systems
- Control systems
- Advanced control systems
- Non-linear system and control
- Modelling and simulation of Dynamic systems

EXTRA-CURRICULAR

Manthan (inter-hostel competition)
Lead singer (Manas Hostel)

📅 July 2017 – May 2019