



Jayprakash Patidar

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M.Tech - Computer Science And Engineering
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Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
M.Tech	Indian Institute of Technology, Guwahati	8.00 (Current)	2019 - Present
B.Tech	University Institute Of Technology ,Barkatullah University , Bhopal	7.49	2015-2019
Senior secondary	MP board	76.4%	2014
Secondary	MP board	77.83%	2012

Projects

■ PQC Hardware Implementation(HLS and Code Optimization)

May 2020

Dr. Chandan Karfa, Assistant Professor , Dept. of CSE, IIT Guwahati

- **Objective:** Optimizing the assigned top module of PQC project using different optimization techniques and HLS pragmas to reduce Area/Latency.
- uses VIVADO HLS tool for C-simulation, synthesis and C/RTL co-simulation of optimized c-code.
- Optimizing the c-code on several benchmark so to fit on standard FPGA Board.

■ Digit Recognition System

Nov 2019

Dr. Pradip Kr. Das, Professor , Dept. of CSE, IIT Guwahati

- **Objective:** A HMM Based speech recognition system trained on pre-recorded data and perform recognition of digits(0-9) by live recording of user voice.
- uses HMM Model and codebook is prepared using LBG algorithm .

■ Speech Based Vehicle Tutorial

sep 2019

Dr. Pradip Kr. Das, Professor , Dept. of CSE, IIT Guwahati

- **Objective:** A simple Voice Recognition system using HMM Model.system will record user voice and perform recognition of vehicle type and show its image.
- GUI is built using visual studio.
- Model is built in C.

■ Performance Analysis System

Aug 2018

Dr. Divakar Singh, Professor , Dept. of CSE, UIT Bhopal

- A desktop based application that allow the user to give series of test/exam and based on his/her result , it predict candidate performance for upcoming exams.
- Application allows login as both student and professor and display predicted result of students.
- Built using Java, oracle database.
- Linear regression model is used for result prediction.

Technical skills

- **Programming languages** : C,C++, Python*, Java *
- **Web technologies** : HTML, CSS
- **Database management** : Oracle*
- **Operating system** : Windows, Linux

** Elementary proficiency*

Key courses taken

- | | |
|-----------------------------------|-----------------------------|
| • Data structure (lab and theory) | • Algorithm |
| • speech processing | • Optimization techniques * |
| • C-Based VLSI Design | • System lab * |

** To be completed in June 2020*

Positions of Responsibility

- Branch Representative of C.S.E 2nd Year Batch, 2016 (During B.tech).
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Achievements

- **GATE 2019** : Secured All India Rank 738 among 0.15 million candidates appearing for the test.
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Extracurriculars

- **Teaching Assistant** | CSE Department, IIT Guwahati
 - CS 342: Operating System Lab.
 - CS 101: Introduction to Computing (Theory+Lab)
- **Sports (2016)** : Part of the Winning team in University cricket tournament.

July 2019-Dec 2019

Jan 2020