SHIVAM PRASAD

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EDUCATION

Indian Institute of Technology, Ropar   *July 2017 - Present*
B.Tech in Computer Science & Engineering
Current GPA: 8.66/10

CISCE
ISC(Class 12): 95%   ICSE(Class 10): 96.8%

TECHNICAL STRENGTHS

Computer Languages	C/C++, Java
Tools/OS	Android Studio, MATLAB, OpenCV, Git, Linux

PROJECTS

Ported Code for Robust Heart Rate Measurement from MATLAB to Android App
Android Studio, Java, OpenCV, Matlab   *May 2018 - July 2018*
· Ported Dr. Antony Lam's and Dr.Yoshinori Kuno's MATLAB code for *Robust Heart Rate Measurement from Video Using Select Random Patches* to Android.
· Used OpenCV for face detection using pretrained HAAR Cascade Classifiers and image data processing.
· Wrote Java code for some MATLAB functions and OpenCV image data processing from scratch.
· Implemented matrix operations in Java using Apache Commons Math library.
· Project was supervised by Dr. Abhinav Dhall.

K Means for Character Array in C
· Wrote a program from scratch for applying K-Means Clustering Algorithm and Logistic Regression on Character-Array in C.
· Used for filtering spam messages from non-spam messages.
· Trained and Tested on a subset of NUS SMS Corpus.

Other Projects
· Implemented Quine-McCluskey algorithm for logic minimization in C++.
· Made a polar to rectangular coordinate converter for Basys 3 in verilog.
· Automated Service Robot using Raspberry Pi. (Ongoing Project)

RELEVANT COURSES

Computer Science	Data Structures, Digital Logic Design
Mathematics	Calculus, Linear Algebra, Discrete Mathematics, Differential Equations
Others	Signals and Systems

POSITIONS OF RESPONSIBILITY

Coding Club Coordinator   *August 2018 - Present*
· Conduct regular coding sessions for juniors and organise regular coding contests.

Quizzing Club Representative   *August 2018 - Present*
· Organise club sessions and participate in quizzing events.

MISCELLANEOUS

JEE Rank	Secured rank 1882 (Out of 1.5 million candidates) in Joint Entrance Exam, 2017.
Volunteer Work	Worked as a part of event management team in college fests.
	Volunteered for Baja Sae India.