RAKESH BAL

E-209, JCB Hall, IIT Kharagpur, West Bengal-721302

(+91) 747 8069 777 ⋄ rakesh.bal@iitkgp.ac.in ⋄ rakeshbal99.github.io

EDUCATION

Indian Institute of Technology Kharagpur   *July 2016 - Present*
Undergraduate   Overall CGPA: 9.56/10
Department of Computer Science and Engineering

Baxi Jagabandhu Bidyadhar Junior College   *July 2014 - May 2016*
Intermediate In Science   Overall Percentage: 89%
+2 Science

St. Joseph's High School   *April 2011 - May 2014*
Indian Certificate of Secondary Education   Overall Percentage: 96%
Matriculation

TECHNICAL STRENGTHS

Programming Languages	C,C++, MATLAB/Octave, Python
Software & Tools	LaTeX, ROS, Git, OpenCV(C++), Qt
Web Development	HTML, CSS, JavaScript

EXPERIENCE

Autonomous UnderWater Vehicle   March 2017 - Present
IIT Kharagpur

· Implementing Mission Planner based on Actionlib and Smach Packages of ROS.
· Implemented Bash Scripts for automating tasks at startup.
· Implemented Canny Edge Detector as part of Edge Detection using OpenCV in C++.
· Implementing Faster R-CNN for Object Detection and Localization.

PROJECTS

Movie Recommender App-Synisto(Under Construction)   August 2017 - Present
IIT Kharagpur

· Used Collaborative Filtering based algorithm to train on Modified MovieLens Dataset.
· Added Recommendation for new users based on ratings of few movies.

ACADEMIC ACHIEVEMENTS

Ranked in National Top 0.014% (amongst 13,00,000 candidates) in JEE Mains 2016 and Top 0.13% (amongst 200,000 candidates) in IIT-JEE Advanced 2016

Qualified Kshore Vaigyanik Protsahan Yojana (Written and Interview) in SX stream (Organized by Indian Institute Of Science, Bangalore) with an All India Rank of 191.

Qualified National Talent Search Examination conducted by NCERT in Xth standard and had secured 3rd rank in the state level stage of the exam.

Qualified National Standard Examination in Physics, Chemistry and Astronomy in XII standard.

RELEVANT COURSES

Core Courses

Programming And Data Structures

Algorithms-I(ongoing)

Discrete Structures(ongoing)

Other Courses

Machine Learning (Coursera)

CS231n Andrej Karpathy(ongoing)

POSITION OF RESPONSIBILITY

Spring Fest 2016   January 2017 - Feb 2017

Crew Member   *IIT Kharagpur*

· Managed the performance of international artists during fest.

· Successfully organized Shuffle Event and prepared music tracks for the event.

· Managed the Youth Marathon during the fest.

EXTRA-CIRRUCULAR ACTIVITIES

Secured 4th position in Quiz held by Institute Of Physics, Bhubaneswar.

Represented LBS Hall, IIT Kharagpur in Inter Hall Maths Olympiad General Championship .

Secured 5th position in Rakesh Memorial Chess Championship in Puri.

Secured a position in the semifinals in the debating tournament conducted by Debating Society IITKharagpur.