

Abdul Fatir Ansari

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EDUCATION

IIT ROORKEE

B.TECH. IN CIVIL ENGINEERING
 2nd year | Roorkee, India
 CGPA: 6.9

ST. MARY'S SCHOOL

Grad. May 2012 | Najibabad, India
 12th: 93.75%
 10th: 92%

LINKS

Github:// [abdufatir](#)
 Twitter:// [@solitarypenman](#)
 Reddit:// [SolitaryPenman](#)

INTERESTS

Computer Vision
 Image Processing
 Machine Learning
 Cryptography
 Web Development
 Bioinformatics

COURSEWORK

Structural Analysis & Design
 Water Resources Engg.
 Highway & Railway Engg.
 Water Supply Engg.
 Theory & Applications of GIS
 Photogrammetry & Image Processing

SKILLS

PROGRAMMING

Expert:

Java • Android • Python • C++ •
 MATLAB

Well Acquainted:

HTML+CSS+JS • PHP • MySQL

Familiar:

C# • \LaTeX

SOFTWARES

MATLAB • Eclipse • Net Beans •
 Android Studio • Visual Studio •
 Dev-Cpp • Photoshop • Lightroom •
 Adobe Premiere Pro • Dreamweaver •
 Office • ArcGIS • ERDAS Imagine

INTERNSHIPS

HELIKAR LAB | ANDROID DEVELOPER

Dec 2015 - Present | University of Nebraska, Lincoln, USA (Work from Home)

RESEARCH AND PROJECTS

HELIKAR LAB | SANIBRIDGE HEALTH APPLICATION

Worked under the supervision of **Dr. Tomas Helikar** on the full stack development of an Android health application. The server was written in PHP with MySQL.

DEPT. OF CSE, IIT ROORKEE | POSTURE RECOGNITION IN HINE VIDEOS

Hidden Markov Model was used on features extracted from HINE videos for broad level exercise classification. Written in C++ (OPENCV) and MATLAB.

DEPT. OF CE, IIT ROORKEE | VEHICLE DETECTION & TRACKING

Used OpenCV for vehicle detection and tracking in a video dataset.

DEPT. OF CE, IIT ROORKEE | ANALYSIS OF BRIDGES & TRUSSES

A Python program was developed for the automatic analysis of determinate and indeterminate bridges and trusses.

DEPT. OF CE, IIT ROORKEE | MAP OF ROORKEE AREA

A map of Roorkee area was made after field survey in ArcGIS.

EXTRA CURRICULARS

LITERARY WRITING

2012 - Present

Editor at **Kshitij** - the official literary magazine of IIT Roorkee

Content Creator at **The Anonymous Writer** - a website which posts original literary works and has 150K+ followers on Facebook.

TECHNICAL BLOGGING

2012 - Present

Occasionally write technical and scientific articles at [tech.abdufatir.com](#).

HIKING

2013 - Present

A member of Himalayan Explorers Club, IIT Roorkee which organizes various treks to the Himalayan ranges.

PHOTOGRAPHY

2014 - Present

PUBLICATIONS

- [1] A. F. Ansari, P. P. Roy, and D. P. Dogra. Posture recognition in HINE exercises. *Proceedings of International Conference on Computer Vision and Image Processing*, 2016 (in press).