

Neeraj Gangwar

Curriculum Vitae

BG-20, Govind Bhawan
IIT Roorkee, Roorkee - 247667
☎ +91-9897073730
✉ nganguet@iitr.ernet.in
🌐 <http://neerajgangwar.in>

Education

- 2009–2014 **Integrated Dual Degree**, *Indian Institute of Technology Roorkee*, CGPA – 8.036.
B.Tech. in Electronics and Communication.
M.Tech. in Wireless Communication.
- 2006–2008 **12th**, *M. B. Inter College*, Bareilly, Percentage – 82.0.
- 2004–2006 **10th**, *Yug Nirman H. S. School*, Baheri, Percentage – 80.3.

Masters Thesis

- Title *Sparse Representation and its Applications*
- Supervisor Dr. Debashis Ghosh, Associate Professor
- Description This thesis explores the idea that many signals can be represented using very few coefficients with respect to certain bases. I am focusing on dictionary learning and its applications in the field of pattern classification.

Internship Information

- May–Jul 2013 **Extreme Blue Internship Program**, IBM INDIA PVT. LTD., Bangalore.
Create core data models for GLSM that are modular and multi-threadable.
Details:
 - Created and verified core data models in C++.
 - Developed a module to generate spice file for the critical path between two given points.
 - Added a functionality to edit the existing path in the memory and replace any subpath.
- May–Jul 2012 **Summer Intern**, MICROWAVE TUBE R & D CENTER, DRDO, Bangalore.
Analyze helix helix slow-wave structure (SWS) and comparison with HFSS results.
Details:
 - Developed MATLAB module to analyze field equations of a SWS.
 - Developed Graphical User Interface for two existing programs TWA3 and SUNRAY 1-D.

Projects

- May–Dec 2011 **Echo**, SDS Labs, Hobbies Club, IIT Roorkee.
Echo is an eBook search engine.
Details:
 - A content based search engine.
 - Also recommends books.
 - Technologies used:
 - Lucene: Indexing and Searching
 - MongoDB: Database
 - Available on campus intranet <http://echo.sdslabs.co.in>

- May–Jul 2011 **Microwave Filters**, *Department of Electronics & Communication*, IIT Roorkee.
 Aim of the project was to study about microwave filters by simulating some examples.
 Details:
- Developed a MATLAB module to compute equivalent RC model of filter for given requirements.
 - Developed a graphical user interface.
 - Provided an option to generate SIMULINK circuit of RC model.
 - Designed and simulated a band stop filter on CST Microstudio.
- Nov 2009 –Jan 2010 **Steganography**, *Software Development Section*, Hobbies Club, IIT Roorkee.
 Aim of the project was to hide text in an image and retrieve it back
 Details:
- Developed MATLAB modules to hide the data and retrieve it back.
 - Developed a graphical user interface.

Awards

- 2012 First prize in *Application Development Category* for Echo.
- 2012 First prize in *Analogic*, a departmental event during Cognizance, annual technical festival of IIT Roorkee.
- 2010 Second prize in *Software Development Category* for Steganography.

Computer Skills

Basic	HTML, CSS, PYTHON
Intermediate	JAVA, RUBY, SCALA, L ^A T _E X, Shell Scripting
Advanced	C, C++, Linux, MATLAB

Extra Curricular

- 2010–Present Active member of SDS Labs.
- 2011–2012 Coordinator of Linux Group.
- 2009–2010 Member of National Service Scheme (NSS).
- 2009 Coordinator of Minutes to Fame during Srishti'10, annual event of Hobbies Club, IIT Roorkee.

Languages

Hindi	Mother tongue
English	Intermediate
Sanskrit	Basic

Personal Details

Date of Birth	January 16, 1992
Father's Name	Virendra Pal Gangwar
Nationality	Indian
Passport Number	J5827527
Permanent Address	% Mr. Mohan Lal Gangwar, Moh. Ramlila, Baheri (Bareilly)