Shweta Sood

#301, 550 Veteran Avenue, Los Angeles | California - 90024 | +1 424-303-1786

✉ shwetasood@cs.ucla.edu | ⌂ ShwetaSood | ⌂ shwetasood.github.io | 🔗 shweta-sood

Education

University of California, Los Angeles   *Sep. 2017 - Present*
Masters of Science, Computer Science

IIIT-Delhi, New Delhi, India   *CGPA: 9.58/10*
Bachelor of Technology (B. Tech.), Computer Science   *2012 - 2016*

Delhi Public School, Vasant Kunj, New Delhi, India   *Percentage: 96.2%*
Senior School, Science, C.B.S.E   *2011 - 2012*

Selected Awards

2012-2016	Amongst top 5 students in my batch of 132 students at IIIT-Delhi
2015-2016	**Best Teaching Assistant Award**, IIIT-Delhi
2012	**INSPIRE Scholarship** by DST, New Delhi (top 1% in 1 million students, C.B.S.E)
2005 - 2011	**Gold Medal**, for proficiency in academics for seven consecutive years
2010	**Distinction Certificate**, Australian National Chemistry Quiz

Industrial Experience

Data Science Engineer   Developed a spam filter for SMS for classifying   *New Delhi, India*
Cube26   messages as personal, promotion, notification [**Link**]   *Jun. 2016 - Mar. 2017*
Project Guide: Dr. Anil Nelakanti

Advanced Distributed Machine Learning   Developed Probabilistic Graphical Model (Bayesian   *Gurgaon, India*
Research Intern   Network) to analyze cause-effect relation among   *May 2015 - Jul. 2015*
Essex Lake Group   variables to find most influential variables for
Project Guide: Dr. Madan Dabbeeru   business benefit on client data [**Link**]

Research Experience

Research Assistant   Deployed a deep learning framework for Object   *Apr. 2017 – Jul. 2017*
Infosys Center for AI   Recognition in Compressed HEVC (x265) videos
                                        [**Link**]

Undergraduate Researcher   Using Electroencephalography (EEG) to predict   *New Delhi, India*
Image Analysis and Biometrics Lab, IIIT-Delhi   correctness of user response on twin and lookalike   *Jan. 2016 - May 2016*
Advisor: Dr. Mayank Vatsa, Dr. Richa Singh   images and classifying images seen by user based
                                        on the EEG data recorded from brain

B.Tech. Thesis   Accurate indoor localization from WiFi data using   *New Delhi, India*
Mobile Computing Group, IIIT-Delhi   RSS Fingerprinting without extensive site survey   *Jan. 2015 - May 2016*
Advisor: Dr. Vinayak Naik   [**Link**]

Selected Projects

Gift Book Recommendation System for Facebook   *Sep. 2015 - Nov. 2015*
Project Guide: Dr. Richa Singh
Developed a book recommender system using a hybrid of Collaborative Filtering, Content based
Algorithms on user data collected from Facebook [**Link**]

Xerox Mortality Prediction *Sep. 2015 - Nov. 2015*
Project Guide: Dr. Richa Singh
Predict risk of death (mortality) in patients admitted to intensive care units (ICU) within hospitals [**Link**]

Cook Pronto: Innovative Food App for Android Phones *Jan. 2015 - Apr. 2015*
Project Guide: Dr. Ponnurangam Kumaraguru
Recipe search based on ingredients [**Link**]

Detection of LSB Replacement and LSB Matching *Feb. 2015 - Apr. 2015*
Project Guide: Dr. A.V. Subramanyam
Developed a steganalyzer to distinguish clean images from those with hidden messages, trained by
Support Vector Machine [**Link**]

Number Plate Recognition *Sep. 2014 - Oct. 2014*
Project Guide: Dr. Mayank Vatsa
Image Processing techniques for optical character recognition in number plates [**Link**]

Publications

Published   G. Tyagi, **S. Sood**, V. Naik, R. Ahmad. CAIL: Cross-calibration for Accurate Indoor Localization Without Extensive Site Survey. In *National Conference on Communications (NCC)*, 2017.

In Preparation   **S. Sood,** A. Jain, R. Singh, M. Vatsa. EEG-based Face Recognition: Twins and Lookalikes.

Teaching Experience

Course	# Students	Position	Duties	Term
Foundations of Finance Dr. Pankaj Vajpayee, IIIT-Delhi	120	Teaching Assistant	Designing and checking assignments and quizzes	Winter 2016
Secure Programming Prof. Matt Bishop, UC Davis	40	Teaching Assistant	Designing and checking assignments, conducting labs	Winter Break 2014

Technical Skills

Programming Languages   C, C++, Java, Python, MySQL

Tools and Technologies   Eclipse, Netbeans, MATLAB, RStudio, Microsoft Visual Studio, OpenCV, GCC

Toolbox and Libraries   MATLAB - EEGLAB, Psychtoolbox, PhD Face Recognition Toolbox
Python - Scikit-Learn, Spacy, NLTK, Pandas, Keras, Theano, Numpy, Matplotlib

Operating Systems   Linux (Ubuntu), Microsoft Windows

Technical Electives   Machine Learning, Information Retrieval, Mobile Computing, Software Engineering, Image Analysis, Designing Human-Centered Systems, Foundations of Computer Security, Multimedia Security, Network Security

Technical Core   Data Structures and Algorithms, Advanced Programming, Discrete Mathematics, Design and Analysis of Algorithms, Linear Algebra, Probability and Statistics, Fundamental of Database and Systems, Computer Networks, Operating Systems

Positions of Responsibility

Coordinator, Dramatics Club, IIIT-Delhi *New Delhi, India*
Prepared budget, recruited members into the club and organized plays *Apr. 2014 - Apr. 2015*

Student Volunteer, Non-Governmental Organization, "Akshay Pratishthan" *New Delhi, India*
Taught underprivileged children of age group 8 - 12 years English and Computers *May 2013 - Jun. 2013*