Varshika Gambhir

Computer Science Undergraduate, NSIT

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EDUCATION

Netaji Subhas Institute of Technology   Delhi, India
B.E. Computer Science | Graduating June 2019   *77.41%*
New Green Field School, Delhi, India
Class XII (AISSCE) | 2015   *97.60%*
Class X (AISCE) | 2013   *CGPA: 10.0 / 10.0*

TECHNICAL SKILLS

Proficient in C, C++, Python and Web Development (HTML, CSS, Javascript, Typescript, NodeJs, ReactJs) | **Familiar** with Machine Learning, Deep Learning, Natural Language Processing, Web Scraping, Android App Development, Java, R, MATLAB, VHDL, SQL.

EXPERIENCE

Microsoft IDC, Hyderabad
Software Engineering Intern   *June 2018-July 2018*
➢ Successfully shipped feature to persist list-view preference for a particular browser session in Microsoft SharePoint Online.
➢ Used ReactJs, Knockout and TypeScript to realize client side autosaving for sorting, grouping, filtering and column formatting.

Duggout
Software Engineering Intern   *October 2018-Present*
Added on-click functionality for push notifications and implementing feature to display and track daily challenges solved by the user.

Defense Research and Development Organization, Delhi
Summer Trainee   *May 2017-July 2017*
➢ Computed ranges and magnitudes of peaks in the given signal using MATLAB achieving an accuracy of 90%.
➢ Used the computed peaks to detect more than 10,000 malignant agents in the given dataset.

PUBLICATION

Aman Bansal, Apoorv Gupta, Deepak Kr. Sharma, Varshika Gambhir (2018): "IICAR-Inheritance Inspired Context Aware Routing Protocol for opportunistic networks", Journal of Ambient Intelligence and Humanized Computing, 9(4), 1868-5145.

PROJECTS

Teacher Retention Attrition Model   *February 2018*
➢ A machine learning model that predicts the likelihood of a teacher to leave her present school with maximum accuracy of 81% after being tested on different ML algorithms: Support Vector Machine, Random Forest, Decision Tree and Logistic Regression.
➢ Top 20 in 500+ teams in Hackeam'18 organized by TeamC.

A Framework for aspect-based sentiment analysis on reviews using ontologies   *April 2017*
➢ Natural language processing project under the guidance of Srishti Sharma, Teaching Research Fellow, NSIT.
➢ About 200k scraped reviews from TripAdvisor & Booking.com were annotated and mapped to required aspects using ontologies.
➢ Text corresponding to aspects was extracted using dependency tree parsing and its sentiment analysis attained 88% accuracy.

Handwritten Digit Recognition   *November 2018*
Developed a neural network trained on MNIST dataset using pytorch to recognise digits in the images with an accuracy of 96%.

Centralized Hospital Appointment Booking System   *March 2018*
Web app built using Nodejs, Express Server and MySQL database to help patients book appointments in any hospital.

Sentiment Analysis of Top Celebrities   *December 2017*
➢ Scraped list of celebrities born on that date from IMDB and their corresponding tweets from Twitter using Beautiful Soup.
➢ Determined overall sentiment of a celebrity with 90% accuracy using Naive Bayes Classifier trained on movie reviews.

ACHIEVEMENTS

➢ Got selected into Facebook's Pytorch Udacity Scholarship programme for Deep Learning.
➢ Top 20 among 500+ teams in Hackeam'18, organized by TeamC for presenting Teacher Retention Attrition Model.
➢ Secured 27th Rank globally among 4700+ contestants in Christmas Circuits, 2016 hosted by HackerEarth.
➢ Qualified for elimination rounds in SnackDown '16 and 17 with a pre-elimination rank of 615 out of 11000+ teams.
➢ Academic Scholar (Gold Medalist) for 9 years in New Green Field School.
➢ Selected as a distinguished fellow at Rewriting The Code Fellowship' 2018.

POSITIONS OF RESPONSIBILITY

Joint Secretary, IEEE NSIT
➢ Organized and managed multiple events at Intra College, Delhi Section and All India Level.
➢ Formed a special interest group of 50+ students, teaching them data structures, algorithms and Android Development.

Founding Member, Research NSIT
➢ Conducted and published 20+ interviews with faculty members and research scholars.
➢ Formulated efficient student-faculty pairs and designed a platform for like-minded students to network and collaborate.

Secretary, Student Council NSIT
➢ Organized NSIT Open Day, Alumni Meet, Placements Talk and managing the Student Mentorship Program.
➢ Responsible for maintaining the official NSIT email service.

Senior Content Editor, CollegeSpace NSIT
Writing, editing and publishing articles of latest technological interests on 'NSITPedia', a blog under the socio-academic platform.