

Harsh Rangwani

23 Sarvodaya Colony, Police Lines, Ajmer - 305001

☎ (+91) 9413695230 | ✉ harsh.rangwani.cse15@iitbhu.ac.in | 🌐 [rangwani-harsh](https://rangwani-harsh.github.io)

Education

Indian Institute Of Technology (BHU) Varanasi

Varanasi, India

B.TECH. IN COMPUTER SCIENCE AND ENGINEERING

July, 2015 - May 2019 (Expected)

- Department Rank 2 in Sophomore year with AP (Exceptional Performance) Grade in Artificial Intelligence.
- Cumulative Performance Index (GPA): 9.46/10

St. Stephens Sr. Sec. School Ajmer

Ajmer, India

HIGH SCHOOL

July, 2013 - May 2015

- Awarded the running shield for best student in the senior most class.
- Percentage (All India Senior Secondary School Examination) : 97%

Experience

Amazon.com (Outbound Marketing Automation)

Bengaluru, India

SOFTWARE DEVELOPMENT INTERNSHIP (TECHNOLOGIES - JAVA, SPRING, AND EASYMOCK)

May 2018 - July 2018

- Created a design wiki for a data component for fetching product data from Amazon API considering issues like caching, coupling and ease of usage. The data component will be a part of low latency Notification Data Retrieval Service.
- Implemented the data component in Java along with Integration and Unit tests. The component was prepared for load testing.
- On boarded the notification program for Sneek Peek Deals Prime Day 2018 through existing packages along with end to end testing.
- Onboarding was done in generic way to support any such programs in future. Program launched successfully in US and Japan.

Training and Placement Cell (Working Voluntarily)

IIT BHU Varanasi

LEAD PORTAL DEVELOPER AND COORDINATOR (TECHNOLOGIES - DJANGO, PYTHON, HTML AND JAVASCRIPT) | [SITE](#)

August, 2017 - Present

- Designed and Implemented the automated scheduling system of slots for campus placements based on student preferences.
- Mentored a group of junior students for building automatic resume generator and verification system for facts in resume.
- Added support for Caching (Memcache + FileBased) and Logging. The portal has more than 2500 active users.
- Helped companies conduct placement drives and hackathons in campus smoothly.

Department Of Computer Science

Varanasi, India

TEACHING ASSISTANT FOR C PROGRAMMING COURSE (CSO-101)

January 2018 - May 2018

- Responsible for marking and assisting students in the tutorial sessions.

Projects

Named Entity Recognition on English Spanish Code Switched Tweets

NLP Lab, IIT BHU

AMAZON PRIZE FOR BEST SYSTEM (STATE OF ART) AT CALCS@ACL2018 | [PUBLICATION](#) | [RESULT](#)

Spring 2018

- Proposed usage of alignment of English twitter embeddings and Spanish Fasttext embeddings along with a gated neural architecture.
- Proposed a novel method of ensembling neural outputs from different activation functions. (2% increase in F1)
- Our system outperformed the baseline by 10% F1 and the publication got 5/5 review scores from 3 independent reviewers.

Irony Detection System

NLP Lab, IIT BHU

SYSTEM ACCEPTED AT SEMEVAL@NAACL2018 | [PUBLICATION](#) | [RESULT](#)

Fall 2017

- Build a system by combining linguistic features based on Senti Lexicon and activations from Pretrained CNN (DeepMoji).
- Proposed SMOTE for oversampling neural activations which led to increase of 4% F1 on the imbalanced subtask (Type Of Irony).
- Conducted ablation test for analysis. System outperformed baseline by 5% F1 and stood 4th among 33 teams worldwide.

Tourism Domain QA System

Prof. R. Sangal and Prof. A.K. Singh

BEST POSTER RUNNER UP AT INSTITUTE ANNUAL DAY 2018

Summer 2017

- Created a dependency based knowledge graph of Wikipedia data. Enriched the graph with Stanford NER and DbPedia annotations.
- Implemented a tree matching algorithm to match question queries to answer sentences using WordNet similarity.

Honors & Awards

COMPETITIVE PROGRAMMING

- 2016 **Honourable Mention**, ACM ICPC India Regionals *Amritapuri, India*
- 2016 **June Long Challenge**, Ranked 51st among 7937 participants in India *CodeChef*
- 2016 **Regular Participant in Sophomore Year**, [rangwani_harsh](#) (Codeforces), [lastoption](#) (Codechef) *IIT BHU Varanasi*
and [rangwani_harsh](#) (Hackerrank). *India*

NATIONAL

- 2015 **JEE Advanced**, Ranked 877 out of 1.5 lakh students in India *India*
- 2015 **JEE Main**, Ranked 161 out of 15 lakh students in India *India*
- 2014 **KVPY**, Ranked 412 in India and received scholarship. *India*
- 2013 **National Talent Search Examination**, Scholarship Recipient *India*

Development and Course Projects

- 2017 **Student Portal (Code)**, A raw SQL query based site. Hosted it on pythonanywhere. *DBMS Project*
- 2017 **Paint It Out (Code)**, A unity based game based on combination of Divide And Conquer and greedy strategy. *Code.Fun.Do, Microsoft*
- 2016 **Departmental Website (Code)**, A django and materialize CSS based site prototype with email sender using SMTPLib. *Course Project*
- 2016 **Sentiment Analysis (Code)**, Analysis of Generative and Discriminative Models for text classification on the Twenty News Group Dataset. *NLP Project*
- 2016 **AnaMover (Remote Controlled Robot)**, Implemented and modified an algorithm to convert the analog signals to machine signals using PWM(Pulse Wave Modulation) in C language for Arduino. *Technex*

Skills

- Programming** Python, C/C++, JAVA, SQL, LaTeX, JavaScript, HTML
- Frameworks** Django, Flask, Spring, Keras, PyTorch, ScikitLearn, NLTK, TestNG, Gensim, Materialize CSS
- Languages** English, Hindi, Sindhi and Rajasthani (Speaking Proficiency)

Coursework

- Software Engineering
- Data Structures
- Algorithms
- Probability and Statistics
- Artificial Intelligence
- Computer Vision
- Operating System
- Introduction to NLP
- Calculus
- Linear Algebra
- C Programming
- I.T. Workshop

Extra Curricular Activities

- 2018 **Machine Learning Reading Group**, Active participant and organizer of group meetings. *NLP Lab, IIT BHU*
- 2018 **Oral Presentation at ACL2018**, Presented our work at CALCS workshop at ACL2018 *Melbourne, Australia*
- 2018 **Coordinator**, Preparing the problem statement and organizing Linguipedia (NLP Event). *Codefest*
- 2017 **Co-coordinator**, Organizing the Byte The Bits Event a collection of Computer Science. *Technex*
- 2014 **Attendee**, Attended the National Science Camp Vijyoshi. Trip was sponsored by Govt. Of. India *IISER Kolkata*
- 2012 **Dramatics**, Active participant in Dramatics and Cultural Events *St. Stephens Sr. Sec. School*
- 2013 **BasketBall Player**, Participated in District Level Competition among schools. *Ajmer*