







# Amit Singh

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## Education

- 2018 – 2020     **University of Hyderabad, Hyderabad**  
M.Sc. Neural and Cognitive Sciences, (Distinction, 9.12/10 gpa.)  
Specialization: Psycholinguistics  
Dissertation: *Influence of interlocutor identity on bilingual language selection - An eye-tracking study* (Supervision: Prof. Ramesh Kumar Mishra)
- 2014 – 2017     **Jawaharlal Nehru University, New Delhi**  
B.A.(Honours), German  
Major: Linguistik, Deutsche Philologie, Language Technology  
Minor : Cultural Studies, International Relations
- 2013 – 2014     **Delhi College of Arts and Commerce, University of Delhi, Delhi**  
Certificate course in German, (Results: Rank 1 in batch of 33 students)  
Aggregate Score : 197 / 300
- 2001 – 2013     **Central Board of Secondary Education (CBSE), New Delhi**  
Senior Secondary School Examination, Class 12th  
Stream : Science (Physics, Mathematics, Chemistry, English, Physical Education)

## Lab Experience

- May 2019 – July 2019     **Research Intern**, Software Engineering Research Center, IIIT Hyderabad  
Role Outline : *I was assigned an open source development project to code, develop, test and implement a Python and JavaScript based Speech Signal Application on Github. The application was developed to visualize spectral features of voiced and unvoiced speech sounds using Linear Predictive Coding algorithm.*  
Responsibilities:  
- Version Control System project management using multiple branches on Git.  
- Build and test Python and JavaScript based speech signal analysis application.  
- Data analysis, lme4 package R.  
- Designing visual world eye-tracking experiments on SR Research software.
- Mar 2019 – Aug 2020     **M.Sc. Dissertation, Action Control and Cognition Lab (ACCL), Hyderabad**  
Role Outline : *I was actively involved in eye-tracking experiment designing, data collection, analysis, results presentation and workshops management.*  
Responsibilities:  
- Research ethics documentation.  
- Stimulus designing and eye-tracking experimentation on Eyelink system.  
- Participant recruitment and eye-tracking data collection and analysis.  
- Volunteering and assisting in organising workshops and conferences.

## Industrial Experience

June 2017 – Aug 2018

■ **Translation Associate - German (full-time)**, Alexa Operations, Amazon Development Center, Bangalore

Role Outline : *Worked in Amazon Data Services Team for 1+ year (full-time) to solve major machine translation challenges of Alexa Devices by curating bilingual corpus data from various sources. The idea was to develop efficient machine translation algorithm for Alexa AI platform using Natural Language Processing (NLP).*

Responsibilities:

- NLP (tokenisation, lemmatisation, stemming, parsing, corpus Word2Vec)
- Corpus sentiment analysis and Part-of-Speech (POS) tagging in German.
- Translation from German to English and vice-versa.
- Devise methods to reconfigure and enhance catalog for optimal UX experience.
- Collaboratively work across teams to overcome technical challenges.

## Skills

Languages ■ German (CEFR B2.2, Professional Working Experience)  
English (Proficient)  
Hindi (Native)

Coding ■ R (Linear Mixed Modelling, VWPre Eyetracking, Corpus analysis)  
MATLAB (EEGLAB, Statistical Toolbox)  
Python (NLP, Sklearn, Pandas, numpy), Git console,  $\LaTeX$

Behavioural Tools ■ Eyelink 1000 Eye-Tracker System, Psychopy, Presentation Software

## Awards and Achievements

### Award

Dec 2020 ■ **Junior Research Fellowship (JRF) in Psychology**  
Awarding body : University Grants Commission

### Certification

Mar 2019 ■ **Tobii-pro Eye-Tracking Certification**, University of Hyderabad, Hyderabad

June 2019 ■ **Brain Computation and Learning**, IISc Bangalore, Bangalore

Aug 2019 ■ **Global Initiative of Academic Networks (GIAN), Course on Attention**  
Title: Science and Significance of Attention, Instructor: Prof. Raymond Klein, CNCS UoH

Mar 2021 ■ **Machine Learning**, Coursera

Apr 2021 ■ **Natural Language Processing with Classification and Vector Spaces**, DeepLearning.ai




## Extracurricular Achievements

Dance ■ **Winner, 1st prize**, Solo Dance, Sukoon Annual Fest, University of Hyderabad, 2019  
**Winner, 1st prize**, Solo Dance, Amazon RBS Bash, Amazon, 2017  
**Elected Convener**, JNU Dance Club (JNU, New Delhi), 2014 - 2015

Volunteering ■ **Volunteer**, MaRRS International Spelling Bee Competition, Osmania University, 2015  
**Volunteer**, Workshop on Cognitive Science in Education, UoH, Hyderabad, 2019

## Referees

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- Prof. Ramesh Kumar Mishra  Professor and Head, Center for Neural and Cognitive Sciences, University of Hyderabad, Hyderabad, India  
**E-mail:** rkmishra@uohyd.ac.in
- Dr. Priyada Shridhar Padhye  Assistant Professor, Center for German Studies, School of Language, Literature and Culture Studies, Jawaharlal Nehru University, New Delhi, India  
**E-mail:** priyadashridharpadhye@mail.jnu.ac.in
- Dr. Joby Joseph  Neuronal Systems Lab, Center for Neural and Cognitive Sciences, University of Hyderabad, Hyderabad, India  
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