

# Amit Singh

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## Education

- 2018 – 2020    📖 **University of Hyderabad, Hyderabad**  
M.Sc. Neural and Cognitive Sciences, (Graduated with distinction, 9.12/10 gpa.)  
Specialisation : 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.




## Lab Experience (continued)

- 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.  
- Participant recruitment and eye-tracking data collection and analysis.  
- Stimulus designing and experiment building on SR Research Experiment Builder Software.  
- Volunteering and 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, MATLAB (Statistical Toolbox), Python (NLP, Machine Learning), Git,  $\LaTeX$
- 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)**, 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

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- 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

## 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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