



AMAN VARSHNEY

MSc Informatics

EXPERIENCE

- Nov 2019 – May 2021** **Senior Software Engineer (Adobe Connect)**
Adobe Systems Pvt Ltd. — Noida, India
- Developed closed captions RESTful interface to assist participants who are deaf or hard of hearing to participate in meetings & applied extractive text summarization
 - Implemented a Single sign-on feature in Adobe Connect to provide a unified login service
 - Created Python scripts for build checking; decreased deployment time by 15%
 - Developed a tool to measure audio-video latency in Adobe Connect
- July 2018 – Oct 2019** **Software Developer**
Noida Power Company Limited — Greater Noida, India
- Led an initiative to develop the first-ever in-house smart conversational assistant “NPCL Saathi” employing RASA Core/NLU; reduced 11% footfall in the customer care offices
 - Created a statistical model to analyze Theft Detection in consumption pattern
 - Contributed to the development of the KRA (Key Result Areas) Management system for real-time tasks update
- Notable Achievements:**
- Recipient of India Smart Grid Forum (ISGF, Govt of India) Innovation Award – 2019 for NPCL Saathi
 - Honored by MD for the development of NPCL Saathi
- June 2017 – July 2017** **Summer Intern**
Delhi Metro Rail Corporation (DMRC, Govt. of India) — New Delhi, India
- Created a live project (website) for tracking work progress of DMRC workers at Stations and Depots; allowed real-time monitoring of workers and their tasks

EDUCATION

- April 2021 – Present** **Masters of Science: Informatics**
Technical University of Munich (TUM), Munich, Germany
- Relevant courses:** Natural Language Processing (NLP), Machine Learning (ML), Basic Mathematical Tools for Imaging and Visualization, Introduction to Deep Learning
- Notable Achievements:**
- Selected for the third batch of Munich Global Impact Sprint (MGIS); a Program run by HMU, TUM, LMU, and MUST
 - Winner of SAP and Accenture Case Study at TUM Business Game 2022
- Aug 2014 – June 2018** **Bachelor of Technology: Computer Engineering**
Aligarh Muslim University (AMU), Aligarh, India
- Bachelor Thesis:** AI conversational assistant using language technologies (Procurement Bot)
- Relevant courses:** Image Processing, Algorithm & Data Structure, Numerical Techniques, Colloquium, Object-oriented Programming



PERSONAL INFO

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SKILLS

Coding

Python, C++, C

Java

JavaScript, TypeScript



Tools/Frameworks

RASA Core/NLU, NLTK, Keras, pandas, NumPy, Flask, React, Angular, Standard Template Library (STL- C++), MySQL, SQLite, JUnit, Jenkins, git, Docker

Domain

NLP, ML, Microservices, Software Engineering Patterns, Unit Testing

SOFT SKILLS

Leadership, Technical Writing, Attention to details, Interpersonal skills, Creativity

LANGUAGES

English: Professional working proficiency

German: Elementary Proficiency

Hindi: Native Proficiency

PUBLICATIONS

June 2018

Recognising personality traits using social media (IEEE – ICPCSI 2017)

DOI: [10.1109/ICPCSI.2017.8392248](https://doi.org/10.1109/ICPCSI.2017.8392248)

June 2019

ProBot: An Online Aid to Procurement (IEEE – SMART 2018)

DOI: [10.1109/SYSMART.2018.8746954](https://doi.org/10.1109/SYSMART.2018.8746954)

Notable Achievements:

- One of the 36 Finalists (Total participants: 2700) selected in a Hackathon conducted by #UnitedByHCL held in Manchester, UK
- One of the finalists in N/Core Ideathon, Bangalore, India, and Rajasthan Government Hackathon, India
- Selected for Summer Research Internship at University of Kiel, Germany

TECHNICAL PROJECTS

April 2022 – Present	<i>Evaluating Summarization techniques for conversational Dataset(s)— (Master Praktikum)</i>
May 2018	<i>Finderbuddy— A procurement Bot (Bachelor Thesis)</i> <i>Tech Stack: Python, Flask, SQLite</i> Chatbot to automate and ease the process of procurement activities in large firms; accepts the input in text and speech and provides output accordingly
Sep 2018	<i>People Wealth— Alexa Skill</i> <i>Tech stack: Python, AWS Lambda</i> The skill developed for Alexa that finds the wealth of celebrities https://www.amazon.in/amanvars-People-Wealth/dp/B07H4SH176
Aug 2017	<i>Search Station— Chrome Extension</i> <i>Tech stack: JavaScript, HTML</i> The extension helps users search across famous online sites like Flipkart, Amazon among others
Oct 2017	<i>ZHCET TPO— Android App</i> <i>Tech stack: Java, SQLite</i> Notification app that provides students with day-to-day updates regarding job placements and other essential information on the go
April 2016	<i>AO Bot— A conversational dialog engine</i> <i>Tech stack: Python, MongoDB, Flask</i> Dialog system that interacted with the user in textual format and supported Hinglish input (fusion of Hindi & English) addressed multiple queries and provided real-time information, e.g., weather info

EXTRA-CURRICULAR ACTIVITIES

- Campus Ambassador of **GeeksforGeeks & Twenty19**
- Cleared **CODEVITA** with **All-India Rank- 264**, coding contest held by TCS (Tata Consultancy Services, India)
- Developer of Android App, Zarf 2016, National Level fest held in AMU, India

POSITION OF RESPONSIBILITY

May 2022 — Present

TUM.ai Active Member, part of Software Development Team, handling website along with innovative AI initiatives

Dec 2017 — May 2018

Public Relation Manager, IEEE Student Branch, AMU, India. Responsibilities include planning, developing and implementing PR strategies

July 2017 — May 2018

IT Cell Coordinator, Training and Placement Office, AMU. Developed android app of TPO

Nov 2017

Member, Organizing Team of IMPACT 2017 (International Conference on Multimedia, Signal Processing And Communication Technologies) held in AMU

HOBBIES

Traveling, Photography, Badminton