

AYUSH JAIN

Career Objective

To pursue an advanced research and development career oriented towards Software, Mobile Application development based on Speech and Language Processing, with ingenious in the real world while enhancing my abilities and skills.

Work Experiences

1. Research Intern – Delhi Technological University(DTU), Delhi (MARCH-PRESENT 2017)

- Build and learned different concepts related to application of soft computing in Recommendations System.
- Building a SentiConceptNet from ConceptNet in similar way SentiWordNet was build from WordNet, to increase the efficiency of sentimental analysis.

2. Software Engineer Intern – Toppr, Mumbai (DECEMBER- FEBRUARY 2017)

Toppr is India's most comprehensive education platform for classes 8th to 12th and one of India's leading company in the field of education.

- Entirely responsible for developing and managing their offline product "Toppr Learn".
- Designed and integrated OCR in the teachers' panel helping them to search student's doubts via image much faster, thus reducing the doubt answering time by 40%.
- Handled VR media player integration and dynamic content changing in the app.

3. Technical Intern – Culture Alley(Hello English), Jaipur (JUNE-AUGUST 2016)

Hello English is the most downloaded Application in India on **Google Play Store** in the field of Education with over 10 millions downloads. This team is among the companies who are rated as "TOP DEVELOPERS" by Google.

- | | | |
|-------------------|--|---|
| Worked on: | <ul style="list-style-type: none">• VoIP Integration• Speech Recognition via Acoustic Model | <ul style="list-style-type: none">• Various Auto-Scripting• Clustering Files on variation of Text and Pitch. |
|-------------------|--|---|

Projects

RECENT MAJOR PROJECTS:

1. GSIM – An ERP & Social Mobile Application (FEBRUARY-2016)

This is my fifth Android Application on **Google Play Store**. This app is based on the **Galgotias ERP System**. Students view their Class Attendance, Time Table, Library Details, News Updates, and Push Notifications etc. This app receives a tremendous response with over 2000 downloads in a week. Also, I received recognition from the people around the college for the application.

2. Custom Search – A NLP based Mobile Application (JUNE-2016)

It uses OCR Technology that enables you to convert different types of documents, such as scanned paper documents, PDF or images captured by a digital camera into refined searchable data using Regex and present the search results customize by user choices using Informational Retrieval Concepts. Build in just 2 days.

3. Intonations Detection – A Speech-based Research Project (AUGUST -2016)

It uses Speech Recognition that enables you to convert Audio Commands to Text based on the acoustic model, with probability and lexical stress. This project help to evaluate Intonations in an input sentence on the basis of the Intensity obtained from the audio file. And make the commands more meaningful.

4. English Telescoping – A NLP based Research Project (SEPTEMBER-2016)

It uses combinations of Lossless Data Compression and Lossy Language Processing Algorithms to encode any English text file for Binary Communication Channel with efficiency of over ~94% by minimizing code word length and therefore reducing the total code length by over 10% and received text similarity rate of over ~92%.

5. Unique Speaker Automated Door – An Android & IoT Application (NOVEMBER-2016)

Inspired from different Hollywood Movies, this project uses speech recognition to uniquely identify the speaker on the mobile phone and using cloud services send the signals to the hardware to unlock the door automatically.

6. Emotion-based Feedback Form – IITB Hackathon Project (JANUARY-2017)

It analyses different reaction of the students throughout the lecture by using Face Recognition APIs and categories it into different categories. Aiming teachers to understand when and where the student lacks interest and helps them to make the decision based on it. Build in just 2 days.

Technical Skills

Software:

- **Languages:** JAVA (Proficient), Python, C, C#, and C++.
- Android Developer with 6 working apps on Google Play Store, with over 4.8/5 rating.
- **Android Application Development Modules:** JSON, JSOUP, GSON, Database, Different Async Task, GPS, Firebase Cloud, Graph's, Listeners, Speech Recognition, OCR Technology, Push Notifications, VoIP integration, Sensors, GUI and Designing, Crashlytics, Analytics, Remote Config, Gradle Scripting, VR integration etc.

Hardware: Worked on Arduino and its different modules related on IoT in JavaScript.

Subjects:

- Data Structure & Databases
- Binary Channel Communication
- Speech & Audio Processing
- Natural Language Processing(NLP)

Educational Qualifications

| Qualification | University/Board | School/College | Percentage | Year of Passing |
|--------------------------------------|--|---|---|-----------------|
| Bachelor of Technology (B.Tech.) | Dr. A.P.J Abdul Kalam Technical University (APJAKTU) | Galgotias College of Engineering And Technology | 78.5% (At the end of 7 th Semester) | 2017 |
| Senior Secondary Certificate(S.S.C.) | C.B.S.E. | Blooming Buds Academy | 83.6% | 2013 |
| Higher Secondary Certificate(H.S.C.) | C.I.S.C.E. | Vikas Bharti School | 86.4% | 2011 |

Achievements

IN TECHNICAL:

- Actively participated in different coding events and Hackathon across Delhi NCR, with over 90% winning percentage.
- Apparition for participation in **JSS Hackathon** conducted by **Microsoft Mobile Innovation LAB**.
(NOVEMBER-2015)
- **Won 1st position in NODAL REGION event CODE RUSH organized by State University APIAKTU at JSS, NOIDA.**
(FEBRUARY-2016)
- **Won 2nd position in STATE LEVEL event CODE RUSH organized by State University APIAKTU at ABES, Ghaziabad.**
(MARCH-2016)
- **Won 1st position in Hackathon based on Building application Rural Development organized by AMD and several NGOs at Jaypee, Noida.**
(NOVEMBER-2016)
- **Among the top 5 teams in the IITB Hackathon organized by Microsoft & CSI chapter Mumbai.**
(JANUARY-2017)

OTHERS:

- Cleared IIT-JEE Advance 2014.
- Served as Galgotias Football Club Goalkeeper in **IMMUCLATE-2015**.
- Won 1st position in NUKKAD NATAK event at Galgotias College & IILM, Gr. Noida. (MARCH-2014)

Position of Responsibility

- Organizes workshops on "Real - Time Databases' with Firebase" and "Opportunities' in Android" with tremendous response.
- Lead Organizer of the first ever 24-Hours Hackathon in the college region.
- Cultural Head Coordinator for IEEE ICGCIOT conference 2015.
- Serving as General Secretary for the Departmental Club "EXTREME".
- Member of Galgotias Technical Club "ENTRIRAAN".
- Event Organizer of Coding Event "CAN YOU C?" in METACOGNITION-2015.
- Serving as Class Representative for the class.