**ASWIN GIRIDHAR SUBRAMANIAN**

**COMPUTER SCIENCE**

**Mobile: +91-9486897842**

**Email: aswinsson@gmail.com**

## ACADEMIC QUALIFICATION

| Degree/Certificate | Marks Obtained (%) | Name of College/ School | University/Board | Place | Year |
|---|---|---|---|---|---|
| B.Tech (CSE) | 87.10 | SCSE – VIT Vellore | VIT- Vellore | Vellore, Tamilnadu | 2018 |
| AISSCE(12th) | 90.6 | Sri Chaitanya Techno School | CBSE | Visakhapatnam, Andra Pradesh | 2014 |
| AISSE (10th) | 95 | Sishya School | CBSE | Hosur, Tamilnadu | 2012 |

## PROFESSIONAL QUALIFICATION

| Type of Work | Designation | Company | Place | Year |
|---|---|---|---|---|
| Internship | Project Trainee | Wipro | Electronic City, Bangalore, Karnataka | Dec 2016 – Jan 2017 (2 mos) |
| Internship | Intern | Novartis | Hitech City, Hyderabad, Telangana | Jan 2018 – Jun 2018 (6 mos) |
| Full-Time | Associate – Data Science | Novartis | Hitech City, Hyderabad, Telangana | Aug 2018 – Sep 2019 (1 yr 2 mos) |
| Full-Time | Analyst – Data Science | Novartis | Hitech City, Hyderabad, Telangana | Sep 2019 – Present (5 mos) |

## PROFESSIONAL PROJECTS

**Sentiment Analysis using BERT**                                Mar 2019 – Apr 2019

- Developed a Sentiment Analysis tool for understanding the survey filled by the commercial team in Novartis using the BERT language model.
- Gathered over eight large sentiment datasets containing over three categories of sentiments and fine-tuned the model with this data.
- Used Python as the programming language along with Tensorflow as the deep learning framework.

**Semantic Textual Similarity for NTO Quality Deviation**                Oct 2018 – Feb 2019

- Used a multilingual BERT model for finding the similarity between the current and past incidents in the manufacturing sites across all Novartis Manufacturing sites based on the free text description of incidents.
- Productionalized the entire ML pipeline for this project

- Lead to the reduction of the investigation time spent by the investigators by over 40% and the chance of the reoccurrence of the incident besides creating a digital transformation among Novartis manufacturing site employees.
- Used Python as the programming language along with Tensorflow as the deep learning framework.

## INTERNSHIP PROJECTS

**Procurement Pricing PoV**                                                                                 Jan 2018 – May 2018

- Generated insights on the variance of pricing among similar goods bought by the Novartis procurement team.
- Lead to the standardization of the procurement process along with a reduction in the variance of procurement of similar goods from various vendors.
- Used R programming language for the analysis.

**Data extraction from semi-structured data sources**                                       Dec 2016 – Jan 2017

- Gathered data from semi-structured data sources such as Word Documents, Excel sheets, PowerPoint presentations, and PDF files, etc. for the client.
- Used Python libraries for extraction of data.

## ACADEMIC PROJECTS

**Speech Recognition – Using Hidden Markov Models and Neural Networks**       Jan 2018 – May 2018

- Developed an Android application, which recognizes the words spoken by the user, by analyzing the speech of the user from a given set of words in the training dataset.
- Used Tensorflow as the deep learning framework along with Python as the programming language .

**Movie recommendation system**                                                                        Jan 2017 – May 2017

- Developed a website that recommends movies to the user based on their preferences and movie reviews submitted by them on the website.
- Used HTML, JavaScript, and CSS for the frontend and MySQL for the database back-end.

## TECHNICAL SKILLS

- **Software Languages:** C, C++, Python, R
- **Tools:** Jupyter Notebook, PyCharm, Spyder, RStudio
- **Operating Systems:** Windows/Linux – Ubuntu
- **Software development methodologies:** Waterfall model, Agile approach, Scrum approach, Incremental Model

## AWARDS & ACHIEVEMENTS

**Above and Beyond - Gold Award (NOVARTIS)**                                                         **Mar 2019**

- Received the excellence award for the work on the Smart Investigation Assistant project along with a cash prize of Rs.10, 000.

**Microsoft Student Partnership program**                                                                  **Jul 2016**

- Completed the Microsoft Student Partnership program held by Microsoft at VIT University.

**Rank-10, NEST - I category (NEST, MUMBAI)**                                    **Jan 2015**

- Secured 10th rank in the All India Ranking of NEST-1 Category scholarship exam conducted by NEST India on Jan 25-2015 and won a cash prize of Rs.30, 000.

**Rank-5, NEST - Jr category (NEST, MUMBAI)**                                     **Jul 2014**

- Participated and Secured fifth position in the All India Ranking of NEST-JR Category and won a cash prize of Rs.25, 000 as Prize money conducted by NEST on July 2014.