# Gowtham Sekkilar

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## PROFILE SUMMARY

I'm a graduate student at Arizona State University pursuing my master's in computer science. Worked as a data analyst at Arizona State University Admission Services with experience in providing important insights through statistical data analysis using tools like python, SPSS, SQL queries, hyland software, onBase unity studio, onBase unity client, and shell scripting. I enjoy being challenged and engaging with projects that require me to work outside my comfort and knowledge set, as continuing to learn new languages and development techniques are important to me. I am currently seeking full-time Job opportunities in the software development field

## EDUCATION

**Arizona State University, Tempe, Arizona** May 2020
Master of Computer Science GPA: 3.6/4.0

Coursework: Artificial Intelligence, Fundamental of Statistical Learning, Data Visualization, Semantic Web Mining, Mobile Computing, Data Mining, Human Computer Interaction, Software Verification and Validation Testing, Info Assurance and Security

**SSN College of Engineering, Anna University, Chennai, India** March 2018
Bachelor of Engineering, Computer Science and Engineering GPA: 8.5/10.0

## TECHNICAL PROFILE

- **Programming Languages:** Python, Java, C++, R
- **Scripting Language:** Shell Scripting, HTML, CSS, JavaScript, D3, Bootstrap
- **Operating System:** Linux, Windows, MacOS
- **Version Control:** GitHub.
- **Database:** MYSQL, SQL Server, Oracle
- **Tools:** Tableau, OnBase, Android Studio, Spyder, Anaconda, MATLAB, SPSS, Axure, AWS

## WORK EXPERIENCE

**Data Analyst / Data Verifier,**
*Arizona State University Admission Services* Oct 2018 – Present

- Worked as a part of the admissions services team at Arizona State University as a data analyst where I was involved in **analyzing** and **verifying** transcripts of students using hyland software technology.
- Optimized **collecting and storing data** such as courses that students took in high school or universities, grades, and other student admission information to the student admission dataset using **SQL** queries.
- Highly skilled in **deploying, managing** and **operating scalable,** highly available and fault tolerance systems on **AWS**
- **Developed metrics** to convert grades to the academic grading format of the United States.
- Created reports and presentations on a daily and monthly basis using **data visualization** techniques in **Tableau** and using **d3.js**
- Made use of **SPSS** to provide meaningful **insights** to the admissions team by analyzing the trends and patterns in the dataset.
- **Trained** and **supervised** student workers for data entry, mail sorting/scanning, and maintenance of confidential information.

## ACADEMIC PROJECTS:

**Megabus Website redesign,** (*Prof. Robert K. Atkinson)* Aug 2019 – Nov 2019

- Redesigned and created prototype of a popular bus booking website to improve usability and user experience
- Addressed many issues such as number of clicks, time to complete task, number of errors and added additional features
- Analysed the website using heuristic evaluation, cognitive walkthrough, A/B testing and T-test
- Designed the website using Axure (a wireframing and prototyping tool), HTML5, CSS3, JS, and SQL

**Amazon Product Review Visualization,** (*Prof. Sharon Hsiao)* Feb 2019 – April 2019

- Implemented a dashboard that reveals the product review analysis for a product chosen
- The reviews were visualized as line and bar chart, gauge chart and word cloud
- Used JavaScript, D3.js for interactive visualizations and python for sentiment analysis, helpfulness determination
- Provided recommendations for other products using TF-IDF model and hosted the dashboard using AWS.

**Gradient Descent Optimization,** (*Prof. Hemanth Venkateshwara*) Aug 2018 – Nov 2018

- Examined the performance of various gradient descent optimization techniques using python
- Implemented a 3-layer fully connected neural network to classify the fashion-MNIST dataset
- Compared the stability, speeds and accuracies of the different momentum techniques
- Evaluated the average performance of each technique for various batch sizes, learning rates and number of epochs

**Adaptive Monte Carlo Sampling,** (*Prof. Yu Zhang*) Aug 2018 – Nov 2018

- Implemented particle filters and KLD sampling method to design Pacman agents that smartly locates and eats invisible ghosts
- Key idea of the sampling approach is to bound the error introduced by the sample-based belief representation
- Showed an impressive performance boost of 74.71 % over traditional sampling approach

**Text Recognition using Deep Learning,** (*Prof. Jansi Rani*) Nov 2017 – Mar 2018

- The goal of this work is to spot text in natural images which consist of text detection and word recognition
- A CNN was developed using MATLAB for text detection and character classification

**Wildlife Intrusion Detection,** (*Prof. Jansi Rani*) Aug 2016 – April 2017

- The core task consists of capturing an image using Raspberry Pi board and perform classification using SVM
- The project was selected out of 78 projects for full funding by SSN College

## SOFT SKILLS:

- **Communication Skills**: Involvement in team meetings, answering student queries and demonstration of process of work to the student workers.
- **Team Working**: Developed through my experience working as a part of teams in academic projects, interacting and coordinating with other team members, mentors and professors.
- **Leadership**: As a captain led a team of six to the finals in Smart India Hackathon 2017

## ACHIEVEMENTS:

- Built an IoT device using Arduino board with motion, Wi-Fi & temperature sensors and created an app that controls them
- Developed a 360 virtual reality app on Oculus Rift
- Awarded scholarship (top 1%) for academic performance at SSN College of Engineering (CSE)
- Headed the mathematics club and organized many events (IEEE Conference, ACM workshop)
- Orchestrated cultural and technical competitions (Instincts'16, Invente'16, Instincts'17)