

Varsha Venkatesh

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EDUCATION

Singapore University of Technology and Design (SUTD)

Singapore

May 18 to Aug 21

- Bachelor of Engineering (Information Systems Technology and Design), Honors
- **Data Analytics** track with a minor in **AI** and **Digital Humanities**
- SUTD Student Achievement Awards 2020 recipient

WORK EXPERIENCE

ClueUP – Product and Technology

Oct 20 to Present

- Designed a user-friendly prototype of the beta version of the ClueUP app, an emerging personal growth platform focused on helping students use their strengths and life skills to succeed
- Currently working on business pitching and prototype demo to secure investors

Quod AI – Data Analyst Intern

May 20 to Aug 20

- Developed training datasets for the company's AI model that translates raw source code into natural language.
- Identified and annotated JavaScript and Java source code from over 1000 GitHub repositories, constantly researched new programming concepts and came up with taxonomy classes for the datasets.
- Analyzed and interpreted patterns and trends in these complex datasets using Quod AI's backend software
- Helped the AI model reach about 75% accuracy by reviewing performance, studying the results and providing ongoing reports.

Changi Airport Group - Experience Creation (CoDE) Intern

Sep 19 to Dec 19

- Collaborated with 2 consultants to redefine the user experience at Changi Airport using Design Thinking
- Improved remote bussing system by leading the ideation and brainstorming discussions, conducting user interviews, performing stakeholder and data analysis, as well as analyzing various case studies to derive valuable insights for the team.

HP Inc. – Computer Science Intern

May 19 to Aug 19

- Designed and developed tools that automate business processes carried out in the Materials and Manufacturing Operations (MMOPs) department using Python, VBA, MS Excel, Access and SharePoint.
- Extracted, interpreted and analysed data to identify key metrics and transform raw data into meaningful information, and visualised the data through user-friendly dashboards. Conducted user testing and deployed the tools.

ACADEMIC PROJECTS

AI tool for occult hip fracture detection – Tan Tock Seng Hospital

Jan 21 to Apr 21

- Designed a deep learning model to automate the process of identifying potential fractures by inspecting X-rays using Computer Vision
- Selected a strategic focus in the healthcare problem and evaluated different AI techniques to solve it.
- Analyzed the key challenges in real-world implementation and developed a proposal with clear objectives towards overcoming them
- Improved the efficiency of annotating the X-ray images by parsing clinician reports and achieved 71% precision.

Analysis of Covid-19 Sentiments on Social Media

Sep 20 to Dec 20

- Investigated the correlation between Covid-19 sentiments on social media and the infection rate.
- Scraped data from Twitter and Reddit, pre-processed it and tried various models such as Logistic Regression, Naive Bayes, Support Vector Machine, and BERT with Fine-Tuning to achieve the best result for multi-class classification.
- Evaluated our model (82% accuracy), visualised results using Flourish and reported our findings in a research paper

Harry Potter – Who said What? – Movie Dialogue Analysis

Nov 19

- Identified trends in movie dialogues to analyze character development in the Harry Potter Series and got featured in [Digital Humanities Minor Honors Gallery](#) as one of the best class projects.
- Prepared a dataset of all the movie scripts and extracted the dialogues of the individual characters. Performed Dialogue Act Tagging using NLTK and NLP methods.
- Created data visualizations using Flourish and D3.js to easily discover trends and summarize results and compared our predictions with our insights.

Design Odyssey 3.0 – D-Note

May 18 to Jan 19

- Pitched to Design Odyssey mentors and industry partners for project funding, secured SGD\$1500 in project funds and used it to build a first prototype.
- Prototyped an affordable digital writing device for student use that replaces paper for social innovation.
- Designed a website and created multiple infographics using Adobe Illustrator and Autodesk Fusion360 to illustrate our idea.

CO-CURRICULAR ACTIVITIES

President, Taal (SUTD Indian Dance Club)

Dec 18 to Jan 19

- Lead the club to a promotion to an official club status.
- Headed a club of 50 members, set club goals and direction, recruited executive committee, schedule weekly sessions, arranged for performances with up to 500 audience members, budgeted the club fund of \$2000 and managed income.
- Increased club funding, and club size by 20 members

Secretary, SUTD Productions

May 18 to Dec 19

- Managed the club's administrative matters, arranged meetings, liaised with the University, managed shoots and crew.
- Helped in ideation, scriptwriting, filming and editing creative videos published on SUTD Productions YouTube channel
- Involved in the making of SUTD's first live talk show, The Sunrise Show

Project Director, Namaste (SUTD Indian Cultural Club)

May 18 to Dec 19

- Managed a team of 9 executive members to plan and organise a 3-hour programme that included various performances and food for SUTD students, staff and faculty to celebrate Deepavali and spread Indian culture. Acquired a turnout of 100 people.

SKILLS

- **Programming:** Python, Java, R, C++, JavaScript, HTML&CSS, SQL, Hadoop, Visual Basic for Applications, Unity.
- **Design:** Design Thinking Methodology, Adobe Illustrator, Adobe XD, Figma, Adobe Photoshop, Adobe Premiere Pro.
- **Others:** Microsoft Office.
- Fluent in English, Tamil and Hindi (spoken and written).