

# JAYANTH VEERAMACHANENI

jayanthveeramachaneni79@gmail.com | +91-9642968239

## Education

2020	<b>Guru Nanak Institutions Technical Campus</b> <i>Bachelor of Technology in Computer Science and Engineering</i>	<b>Hyderabad, India</b>
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## Work Experience

2020-Present	<b>Lead Software Engineer, Tata Consultancy Services</b> <ul style="list-style-type: none"><li>Used Azure and Microsoft SQL Server for end-to-end data processing while working for Johnson &amp; Johnson to deal with warehouse data</li><li>Collected raw data, and processed it using multi-layered framework thereby creating reports using Microsoft SQL Server and Azure</li><li>Developed Z-order optimisation in which left join operations in SQL that previously took <math>O(N^2)</math> time were reduced to <math>O(N \log N)</math> following adjustment</li><li>Utilised Azure Databricks to manually hardcode framework via Python SQL and Spark, and used Azure Data Factory to run pipelines and store data</li><li>Established systematic archival method by creating pipelines to vacuum unnecessary data and reduced running time of pipelines from <b>5-6</b> hours to <b>90-120</b> minutes</li><li>Modified entire framework to handle many files at once by using hashmap with file location and temporary run ID as key-value pair and developing queue data structure to process them</li></ul>	<b>Hyderabad, India</b>
2020	<b>Deep Learning Solutions Architect, Brain Grid Technologies Pvt. Ltd.</b> <ul style="list-style-type: none"><li>Created deep learning models with CNNs, image classification &amp; object identification models with Keras &amp; Tensorflow</li><li>Trained in proprietary software stack from Nvidia, which includes Tensor RT and Automated Mixed Precision (AMP)</li><li>Utilised Nvidia Hardware Kits i.e. DGX and Jetson Nano Kits to simulate deep learning models and delivered <b>2-day</b> training on dockers, containers, TensorRT, and AMP to LG Systems Private Limited</li></ul>	<b>Hyderabad, India</b>

## Positions of Responsibility

2019	<b>Chief Organiser, Guru Nanak Institutions Technical Campus</b> <ul style="list-style-type: none"><li>Organised ICICSE summit to publish research articles in ICICSE journal and coordinated production of several events for customers to ensure completion of requisitions and specifications</li><li>Built and maintained strategic relationships with regional vendors while developing and managing event budgets and post-event evaluations</li><li>Secured venues, designed innovative posters and leaflets, promoted company's services and miscellaneous functions on Internet</li></ul>	<b>Hyderabad, India</b>
2019	<b>Team Lead, Service Now</b> <ul style="list-style-type: none"><li>Led team of <b>5</b> participants to represent college in hackathon held at Service Now India Development Center</li></ul>	<b>Hyderabad, India</b>

## Volunteering Experience

2020	<b>Participant, Yashoda Hospitals</b> <ul style="list-style-type: none"><li>Participated in <b>5k</b> run sponsored by Yashoda Hospitals to benefit cancer patients via fundraising, awareness campaigns and volunteering</li></ul>	<b>Hyderabad, India</b>
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## Research Experience

2019	<b>Stock Price Prediction Using Swing Trades, ICICSE, Guru Nanak Institutions Technical Campus</b> <ul style="list-style-type: none"><li>Performed secondary research to develop paper on stock price prediction using RSI indicator under supervision of Mrs Swathi in team of <b>2</b></li></ul>	
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## Academic Projects

2019	<b>Traffic Sign Board Detection System, Guru Nanak Institutions Technical Campus</b> <ul style="list-style-type: none"><li>Directed <b>4</b>-membered team to develop deep learning model based on TensorFlow and Keras to detect traffic sign boards using CNN</li></ul>	
2019	<b>House Price Prediction, Guru Nanak Institutions Technical Campus</b> <ul style="list-style-type: none"><li>Produced house price forecast using Huston housing data-set, i.e. linear regression model using structured continuous housing sales data and gain insights from it</li></ul>	

## Additional Skills

<b>Achievements</b>	Solved 500+ problems across several platforms i.e. Leet Code, Interview bit and Geeks for Geeks
<b>Awards</b>	1st Position- Inter College Hackathon ( <b>TKR College of Engineering, 2018</b> )
<b>Certifications</b>	Microsoft Azure - AZ 900, Microsoft Azure - DP 900, Mastering Data Science
<b>Coding Languages</b>	Python, SQL, C
<b>Tools</b>	Azure Databricks, Azure Data Factory, ADLS, Microsoft SQL server, Anaconda Jupiter
<b>Technical Skills</b>	Database knowledge, Data structures and algorithms, Testing Procedures, Source Control, Data Analysis, Operating Systems, Software Framework, Research, Market Analysis, Teamwork, Communication, Relationship Management