LIKHITH HARISH ANUMUKONDA

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EDUCATION

Stony Brook University   **August 2022 – Present**
Master of Science in Computer Engineering, (GPA: 3.75/4.0)   *Stony Brook, NY*

Indian Institute of Information Technology, Design and Manufacturing   **September 2015 – May 2019**
Bachelor of Technology in Mechanical Engineering, (GPA: 8.11/10.0)   *Chennai, India*

EXPERIENCE

Tata Consultancy Services Pvt. Ltd   **September 2019 – June 2022**
Senior Software Engineer   *Hyderabad, India*
- **ICICI App Development (Android/iOS):** Implemented a solution to prevent **UPI fraud** through Mobile Number swap. Modified the overall schema of the **Oracle database** that can prevent fraud for about **40% potential users.**
- Collaborated on performance-driven **API services** development and consumed **SOAP and RESTful** web services in various app modules.
- Developed the new flow for the login and activation interfaces that securely authenticates users. Modified the **AES encryption and hashing algorithms** for storing critical details like banking usernames and passwords.
- Programmed a user-centric offer **Recommendation Web Service** that can handle a vast user load (**approx. 12000 requests/minute**), decreasing the average response time to **less than 200ms**.
- **Technologies:** Java/J2EE frameworks, JUnit, Spring, Spring Security, Microservices, Oracle DBA, Hibernate, SQL, Web, KnockOut Js, Android Studio, Cordova, SVN, Agile development, Sprint Planning.
- **DBS Bank Web Development:** Assisted in the development of the **Front-end** of a web application using **Typescript** and the **Angular** framework. Application scaling and code optimization by **re-framing the APIs**.
- Worked on writing **unit test cases and service integration** for migrating existing bank applications to the latest **Angular** Version. Reduced deployment **rollbacks by 15%** with unit test cases in **Jasmine**.
- **Technologies:** HTML, CSS, Bootstrap, JavaScript, Angular 8, Typescript, Git, MongoDB, Firebase, Google Analytics.

Tata Motors   **May 2018 – October 2018**
Software Intern   *Pune, India*
- **Defect Tracking & Predictive Analysis:** Focused on achieving zero defects in the BIW line of Xenon vehicle. The data collected is processed using **Principal Component Analysis** and defects are predicted using **regression models**.
- The defects predictions are displayed on the shiny dashboard, **reducing the defects per day by 20% in each station.**
- **Technologies:** R, PLC programming, Multivariate regression, Support Vector Machine, PCA, (KPI) report.

PROGRAMMING SKILLS & COURSEWORK

Languages: Java, Python, C, R, SQL, HTML, CSS, JavaScript, Typescript, MATLAB.
Frameworks/Tools: Spring MVC/Security, Spring Boot, Hibernate, Oracle DBA, JDBC, Bootstrap, Angular, Python Libraries-(OpenCV, Keras, Scikit-learn, Pandas, NumPy, BeautifulSoup), Tensorflow, Git, Version Control, Android.

PROJECTS ⬈

Recommendation system ⬈ | *Python, BeautifulSoup, GeoCoder, FourSquare API, Clustering Algorithms.*
- Developed a system for providing recommendations to open a restaurant by using neighborhood data in a city. Predictions are provided using Clustering algorithms(K-means) and visualized in a map view.

Image Enrichment AI Hackathon ⬈ | *Python, OpenCV, Tensorflow, Pandas, Keras.*
- Utilized OpenCV methodologies in Python for Watermark Removal, Rotation Adjustment, Skewed Images, and Blacked Images. The methods implemented were able to correct 60% of the dataset shared for the AI Hackathon Challenge.

FP Growth & Decision Tree Implementation ⬈ | *Python, Pandas, Numpy, Sklearn, Matplotlib.*
- Implemented FP growth & Decision Tree algorithms(using GINI Index, Gain Ratio, Information Gain) in Python from scratch without using existing libraries. Tested the algorithm on various benchmarks and analyzed different metrics.

Optimized Image Processing Techniques | *Python, Matlab, OpenCV, Tensorflow*
- Worked on optimized histogram equalization, bilinear interpolation, and gaussian filters to automate the processing of medical images, low contrast, and pixelated images.

LEADERSHIP / EXTRACURRICULAR

- **Graduate Student Assistant:** @Stony Brook University Libraries. Responsibilities include maintaining students' records and assisting students with research.
- **Digital Developer:** Achieved the tag with 100% compensation for being the top performing employee across the organization and received this role within 1 year of joining.
- Presented a talk on NLP text mining on the web for an audience of 400 @TCS. Received an 'A'-band review rating for my work for two years.