

SRIRAM MAHESH

AI & DATA SCIENCE ENTHUSIAST

CONTACT

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ABOUT ME

A dynamic professional with good communication and presentation skills, having great affinity to develop AI-based solutions, specifically in solving problems in Data Science, NLP & Computer vision. I'm very enthusiastic about learning cutting-edge tools, finding insights from data and have the ability to work individually and in a group setting.

CONFERENCE SPEAKER


IBM DIGITAL DEVELOPER INTERNATIONAL
CONFERENCE 2020 - INDIA & ASIA PACIFIC

24/11/2020 SESSION RECORDING:  PPT: 

- Invited by IBM to be a Key Speaker
- Present a LIVE interactive technical session on "Applications and Challenges of AI in Computer Vision and NLP".

THESIS PUBLISHED

IEEE XPLORE INTERNATIONAL

TITLE : Depicting User Connections in Social Media by Mapping User-Shared Images (08/2018) 

- Presented in 2018 Fourth International Conference on Computing Communication Control and Automation (ICCUBEA) and Published research work in *IEEE Xplore*.
- Keywords:** Image Classifier, TensorFlow, Neural Networks, Python, Training Data models, Connection Discovery, Social Media user relationships, Social Graphs, K-Means clustering, Data Visualization

EDUCATION



SRM INSTITUTE OF SCIENCE & TECHNOLOGY

(B.Tech in Computer Science and Engineering)

(2014-2018)

CGPA : 8.39 / 10.0
(= 83.89%)

Co-Curricular Activities:

Co-Organizer in a tech fest. Conducted events and mentored 6 junior teams

Created websites for cultural events, landing pages and a personal blogspot.

WORK EXPERIENCE

LTI (LARSEN & TOUBRO INFOTECH)  Software Engineer (08/2018 - PRESENT)

❖ **Banking & Financial Services (BFS) Domain (Fortune 500 Client)**

R&D Projects in NLP/Data Science - Intellectual Property (IP) Initiatives

- Knowledge Search Engine using NLP & Elasticsearch** - Application parses through the Local corpus (PDF/Word in Single/Batch) - Both Machine Readable & Scanned (using OCR) and structures the information (Text, table, images etc) in a **React** application. Solution also crawls information from multiple web sources and displays relevant answers. Deployed application in Microsoft Azure.
- Information Extraction in Legal domain and Depict Insights** - Applied OCR & built an NLP ontology model for information extraction and context understanding from a huge volume of financial contracts using Python, APIs and IBM Cloud Watson Services. Depicted KPIs in Power BI and build a **React** UI to visualize insights.
Objective: A solution to assist clients with LIBOR Transition.
- Automation of Identification and AI-based Visual Testing of UI components** - Analyzes the DOM of webpage(s) and describes UI components and its styling/client-side validation properties in natural language. Also detects visual changes in UI using Computer Vision as applications undergo development over time.
- Develop and Automate Corporate Data Governance Dashboards** - Developed multiple Power BI dashboards & automated the refresh process for a data governance initiative. Built Key Performance Indicators (KPIs) for resource onboarding, allocation, billing & movement for the entire Business Unit.

ADDITIONAL ACTIVITIES :

- **Key Organizer for an Internal Global Hackathon (Organized by LTI and Powered by IBM)** - Coordinated with IBM (Hackathon Cloud partner) and 45+ teams (375+ participants) to address 13 problem areas faced in BFS (Business Unit).
- **Won 2nd Runner in an organization-level Hackathon** - Proposed a solution to drastically track and control carbon emissions and also suggested to provide carbon advisory solutions to potential clients.

❖ **Oil & Gas - MFG Domain (Fortune 500 Client)**

- Refactor and Migrate 8 applications** (Dotnet + SQL DB + ETLs) from On-Prem to Azure Cloud (PaaS) solution - Silo & Integrated Applications
- Develop and deploy ETLs in SSIS, Azure Data Factory** to transform and clean data from multiple sources (SQL / Oracle / Flat files)
- Automate** approval process, weekly status email, dashboard refresh using Microsoft Power Automate and SharePoint.

DIGITAL BADGES

ACCLAIM DIGITAL BADGES: 

GOOGLE QWIKLABS BADGES: 

PROJECTS

Analyze neighborhoods in Chennai for a Shopping Mall

Scrape web information, apply K-means clustering to determine best neighborhood to build a shopping mall to increase revenue (ROI) using beautifulsoup4, Geocoder, Foursquare API, Folium and Pandas

Real-time Custom Object Detection Model

Built using YOLO v4 Algorithm in Python to detect classes like humans, vehicles, buildings in real-time

Chatbot for Railway ticket reservation

Using NLP and supervised learning based models to build a Q/A system to respond with live data from IRCTC. Deployed on Facebook.

Credit Rating based on Social Media Information

Used Twitter API and scraped data from LinkedIn and extracted education & work history, social circle and others to prove user's credit worthiness.

Automation bots for Instagram

Built a bot using Selenium Web Driver to automate actions of a user (login, like posts, post comments, calculate follower trends)

EXTRA CURRICULAR ACTIVITIES

Participated in National Robotics Championship (2014)

- Conducted by ARK Techno Solutions and sponsored by IIT BOMBAY and NRC India.
- Built a robot using sensors to navigate on an object avoidance path using sensors.

Dynamics Robotics Summer Workshop (2010)

- Conducted by Primero Education

WORKSHOPS

Cyber Forensics & Crime Investigation (07/2016)

Conducted by Innovians Technologies

Learnt: Various types of cyber attacks and their prevention, Evading IDS, Firewalls and Honey pots.

Open Source Tools for Network Security (03/2016)

Learned: Cryptographic Algorithms, Real Time scenario study of various Network Security, Study of various levels of Network architectures.

Certified Ethical Hacking Expert - Level 1 (08/2015)

Conducted by Tech Defence & HACKTRACK

Learnt: SQL injection, Study of various types of Cyber-attacks, Steganographic methods and Cryptarithmic problems.

INTERNSHIPS

❖ Cherrytec Intelisolve Limited

Chennai, India (12/2016 - 01/2017)

- Hands-on experience on SAP NetWeaver 730 Frontend application software
- Functional basics in SAP FI & MM
- Built invoice receipt PDF using ABAP programs
- Built Stored Procedures in Oracle DB 12C.

❖ Best of Breed Software Solutions Limited (B.B.S.S.L)

Bangalore, India (06/2016 - 07/2016)

- Trained in General Banking & CRM
- Hands-on experience in BALCON Application (Employee & Project Management System) - Technical Architecture and upload of data.
- Worked on Finacle – A core banking product by Infosys and worked on Customer & Inventory with clients.

CERTIFICATES

❖ IBM Data Science Professional Certificate

Completed 9 courses for certification and received IBM Digital badges in Acclaim. Learnt web scraping, data collection and pre-processing in SQL / MongoDB, apply complex ML algorithms for Prediction / Classification / Clustering and formulate insights by visualizing data.

❖ Machine Learning by Stanford University

Worked on Regression, Classification, Neural Networks, Bias vs Variance, SVMs, Clustering, Dimensionality Reduction, PCA, Anomaly Detection, Recommender Systems based problems in Matlab & Python

❖ Neural Networks & Deep Learning - deeplearning.ai

Logistic Regression, Vectorization, Gradient Descent, Activation function, Forward & Backward propagation, Hyperparameter tuning.

❖ Google Cloud Digital Badges - Machine Learning and AI Skill

❖ Tableau Data Scientist Badge

❖ MongoDB for Python Developers

❖ Beginner Full Stack Web Development: HTML, CSS, React & Node - Udemy

Created dynamic web-applications using React, MongoDB, REST APIs

❖ Fundamentals of Digital Marketing - Google

Certificate ID: MKQ A7T 5RB

❖ 30 days of Python - Udemy

Learnt Web Scraping using BeautifulSoup4, Python scripts to send : emails via Gmail ; SMS using Twilio API. Use Twitter API and pythontwitter for analytics on tweets. Login with IMAP to Fetch-Convert-Save emails in local.

❖ Using Python to Access Web Data - University of Michigan

LANGUAGES

- **TAMIL**
Native or Bilingual Proficiency
- **HINDI**
Full Professional Proficiency
- **ENGLISH**
(*IELTS Academic: 7.5 / 9.0*)
Full Professional Proficiency
- **FRENCH**
Limited Working Proficiency