Srivenkata Srikanth

+447459581733, srikanthtk99@gmail.com, linkedin.com/in/srikanth-srivenkata-53263a140, github.com/skth5199, skth5199.github.io

WORK EXPERIENCE

TEK systems Contractor at Bank of America Merrill Lynch

Junior Quantitative Developer - Global Market Risk

August 2022 - Present

- Performed Operational Risk Remediation by implementing process refinements and driving automation initiatives.
 This involves identifying inefficiencies and bottlenecks and, collaborating with cross-functional teams to devise solutions.
- Delivered model changes and improvements by working closely with quantitative analysts and other stakeholders, ensuring the accuracy and effectiveness of risk assessment models used by the bank.
- Actively contributed to design sessions to innovate in ongoing projects and solve blockers along with the team.
- Automated Overage Reporting by developing a library which automated the generation of 40 reports saving over 150 hours of manual work every quarter.
- Automated the Event Risk quarterly calculations, saving the model owners one week every quarter. This freed up resources for strategic tasks while significantly reducing errors, whilst saving around £13,000 every quarter.

University of Reading, Reading UK

Research Assistant (AI Software Engineering & Data Science)

September 2021 - August 2022

Completion: October 2021

- Undertook the Critical Chains Fintech Research project, a multi-million-pound project by the European Union.
- Spearheaded 12 stakeholders including EY and Netas, in the final data analysis and modelling phase.
- Performed data analysis and visualised large financial datasets to uncover data stories and insights.
- Feature engineering was executed, and feature importance techniques were utilised for reliability analysis which helped optimise the feature space, speeding up the training process by 50%.
- Developed Fraud detection models using Machine Learning. Engineered Deep Learning and Graph-based Algorithms which boosted the performance by 3%.

Tata Communications LTD, ITPL, Bangalore

Project Intern June 2019 - July 2019

- Project: Developed a User Management Application and a chat app using Spring Boot, JDBC and MySQL, which was then containerized using Docker and Kubernetes.
- Participated in daily stand-up meetings and understood the coordination and working of a professional tech deliverable team.
- Skills acquired: MySQL, Docker, Spring boot.

TECHNICAL SKILLS

- Programming Languages: Python, SQL, Java, C, Excel
- **Domains**: Quantitative Development, Data Analysis and Visualization (Python, Tableau), Deep Learning, Machine Learning, Databases (MySQL), Data Structures and Algorithms, Computer Networking, Software Security

EDUCATION

University of Southampton

Master of Science in Computer Science

- Graduated with Distinction.
- Gained in-depth knowledge and hands-on experience of Data Science and Machine Learning.
- Developed advanced level databases knowledge and implemented a Query Optimizer for a given DBMS.
- Learnt the theory behind and engineered an Automated Negotiation Agent.
- Critically analysed five approaches to solve the Mediaeval data classification problem.
- Learnt Cloud, Web and Mobile Application development and built a website and a Mobile application.

Amrita School of Engineering, Bangalore

Bachelor of Engineering in Computer Science and Engineering

- Graduated with First Class + Distinction.
- Key skills gained include Data Structures and Algorithms, Operating systems, Machine Learning and Artificial Intelligence, Computer Networks, Software Engineering and Databases.

ACADEMIC PROJECTS

Monocular Depth Estimation using Transfer Learning with focus on complex scenarios (github) June 2021 - August 2021

- Concept of Transfer Learning was employed to develop three monocular depth estimation approaches, as an alternative to the currently used expensive and limited LIDAR solutions, saving car owners over \$1000 each.
- Three solutions (namely the Pix2pix model, the U-net with DenseNet encoder and the U-net with MobileNetv2 encoder) were developed and experimentally compared.
- A Graphical user interface was developed to facilitate the hybridised and appropriate use of the engineered models.

Food and Nutrition Analytics (github) (blog)

April 2022

Completion: April 2020

- Dataset was originally scraped from MyFitnessPal and transformed into a structured format from JSON using python.
- Food consumption data was analysed and visualized to aid supermarkets in better stocking, and potentially slashing waste generation by over 10,000 tonnes.
- Insights on the diet trends and eating habits of users were produced to bring out the story behind the data.

Query Optimizer (github)

March 2021

- A Query Optimizer and estimator were built for SJDB (A simple data base designed by Dr Nicholas Gibbins).
- The Estimator accepted a database logical query and estimated the total cost in terms of disk accesses.
- The Optimizer optimised a given query by pushing down the Selects, creating Joins and adding Projects.

Fraud Detection using Graph Machine learning (github)

January 2022

- A graph machine learning end-to-end solution was developed to detect fraud on a large financial dataset by Vesta.
- Two Relational graph convolution networks were developed and compared.

Tweet Classification on the MediaEval Benchmarking Initiative (blog)

January 2021

- Theorized solutions five solutions for Twitter MediaEval data and critically analysed them.
- This is an example of a solution proposal that can be used in the initial stages of Data consulting and Research.

PAPER PUBLICATIONS AND CERTIFICATIONS

- Deep Learning Specialization by Andrew Ng
- Data Scientist with Python career track by Datacamp
- Detecting Surface Cracks on Buildings using Computer Vision (publication) (github)
- Identification of Criminal Hotspots using Machine Learning (publication) (github)

ACHIEVEMENTS AND EXTRACURRICULAR ACTIVITIES

- Amrita University Scholarship holder (50% fee waiver)
- IELTS: Band 8 Good communication skills
- Presented the Data Swiss Knife project at Google DSCOMG (August 2020) Presentation skill
- First place in the SLAC Hackathon organized by Honeywell at Amrita School of Engineering Problem Solving
- Top 3% of Indian teams at Nullcon Hackim, an International Capture the Flag event Critical thinking
- Executive Member at Amrita Club for Robotics and Mechatronics (2018-2019) Team Player, Leadership
- Event Coordinator for RASE, a national level robotics competition. (Feb 2019) Organization skills
- Co-Founder at bi0s-Bangalore Cybersecurity club. (Jan 2019) Leadership, Mentoring skills
- Volunteer at Amritanandamayi Math (Event organization, Crowd control and Food service) (Sept 2016 and 2017)