

# Vikraman Senthil Kumar

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## EDUCATION

### University of California, Davis

Master of Science in Computer Science

Davis, California

Sept 2022 - Present

### SRM Institute Of Science and Technology

Bachelor of Technology in Computer Science and Engineering **GPA: 9.02/10**

Chennai, India

June 2018–May 2022

## WORK EXPERIENCE

### Tata Communications Transformation Services

Pune, India

**Software Developer Intern** | Python · spaCy · JavaScript · MySQL · HTML · CSS

Apr 2022 – July 2022

- **Automated Categorizing Support Tickets:** Collaborated on integrating brand new core features into the existing database system, used by over 1500 employees.
- Leveraged NLP to examine more than 300,000 earlier incident tickets. Based on this, all forthcoming incident tickets were assigned a category.
- This new feature hugely benefited employees as it automated the existing system and provided solutions directly based on the category. Well over 100 man hours a month were saved as a result.

### St.Peters Institute of Higher Education and Research

Chennai, India

**Research Intern** | Deep Learning · Python · Git · Image Segmentation

October 2020 – Dec 2020

- **Deep Learning:** Contributed to the work done by Dr.K.Thirunadana Sikamani on Deep Learning by optimizing a modified U-net to process image segmentation faster and more efficiently.
- **Miscellaneous:** Contributed to debugging, testing, and documenting the code.

## TECHNICAL SKILLS

**Programming Languages:** C++, Python, JavaScript, HTML, CSS

**Database and Web Development:** MySQL, Eclipse, REST API's

**Others:** Tableau, AWS, Jira, Jenkins, Git, SciPy, Keras, Numpy, Matplotlib, NLTK, SpaCy

## PROJECTS

### Optimized approach for spot price prediction using ML | *Python · Keras · Machine Learning*

- Conceptualized OptEx in collaboration with a team to estimate the completion time of a given Apache Spark job using ML.
- Spearheaded the development of the model using ARIMA(AutoRegressive Integrated Moving Average).
- The model is also able to estimate the needed cluster composition for running the specified Spark job with a significantly lower error rate.

### PolyP detection in colonoscopy images | *Python · Keras · Deep Learning · HTML · CSS*

- Implemented a model to identify cancerous cells from dermatoscopic images and incorporated the AlexNet pre-trained model with a 89% accuracy and ROC of 0.87.
- Performed Data Augmentation to generate more data points to amplify the robustness of the model.
- Deployed the model in Amazon Lambda and utilized a web application to host it in the front end.

### Advertisement click prediction using ML | *Python · Machine Learning*

- Performed EDA for preliminary analysis and visualization of data.
- Designed a Logistic Regression model to predict the target audience based on the features. The accuracy was 88% which was supported by confusion matrix and classification report.

## POSITION OF RESPONSIBILITIES

**JARVIS (Machine Learning club):** Served as the club's coordinator and a speaker at numerous occasions.

2020

**Mentor:** Mentored over 300 students in SRM Institute of Science and Technology on public speaking skills.

2020

**National Service Scheme:** Assisted in organizing various social drives and events.

2019