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Dantu Venkata Sai Kamal

LinkedIn GitHub Portfolio

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INTERNSHIP EXPERIENCE

Google DSC Lead'21, Intern **Google Developer Student Club.** **Aug'2021 – July'2022**

- Conducted hands-on workshops and sessions on Web Development, Docker, Kotlin, Kubernetes, Cloud, Git.
- Part of 250 students from India that were selected as Google Developer Students Clubs lead in 2021.
- Established a technical community in the college and trained multiple people to lead the community.
- Built various open-sourced projects and encouraged various students to contribute to the projects.

Full Stack Developer, Intern **HFIL Technologies Pvt. Ltd.** **Nov'2020 – July'2021**

- Led the Development team of a Start-up that focuses on Electric vehicle charging stations and smart energy meters.
- Built cross platform scalable mobile applications using flutter and deployed the data pipelines on **AWS EC2, and Azure** instances.
- Designed UI wireframes for the applications using Figma and also documentation for the applications.
- Effectively managed projects from start to finish.
- Improved the response time of applications by over **800 milliseconds**, using advanced **frameworks**, **data structures**, **caching** mechanism and **optimized code** in order to reduce the number of queries to the database.

Linux Developer, Intern **Swecha.org** **June'2020 – July'2020**

- Built an Operating System for Engineering colleges in the state of Telangana that comes pre-installed with all the software an Engineer of any majors would require.
- The Operating System is based on Linux kernel and is made open-sourced in order to encourage other students contribute to the Operating System and learn more about Operating Systems**.**

LANGUAGES AND TECHNOLOGIES

- **Programming Languages –** JavaScript, Python, PHP, C, C++, Dart
- **Databases –** MySQL, PostgreSQL, MongoDB
- **Frameworks and Libraries –** Flutter, ReactJS, NodeJS, ExpressJS, NextJS, Laravel, Bootstrap
- **Data Science and Machine Learning Libraries –** Tensorflow, OpenCV, Scikit-Learn, Numpy, Pandas, Matplotlib
- **Cloud Technology –** Google Cloud Platform, Azure, Amazon Web Services, IBM Cloud
- **Miscellaneous –** Git, GitHub/Bitbucket, Jira, Docker

EDUCATION

B.Tech. in **Computer Science Engineering – 8.0/10**
(current GPA)
Bharat Institute of Engineering and Technology, Ibrahimpatnam, Telangana
Graduation *by* June'2023

Std. XII
Marks – 81.8 PR
VelocITy Junior College, Hyderabad
June'2017 to May'2019

TECHNICAL EXPERIENCE

- **Leaf Disease Identification:**
  Built a cross platform mobile application using **Flutter and TensorFlow** that uses Machine Learning to detect 30+ diseases with an accuracy of 97.53%. The ML model is trained with a dataset of over 6.5 Lakh images and is integrated with an IBM Watson chatbot that can answer over 60 common questions on agriculture. There is also a language translation module that let's a farmer use the application in their native language. (GitHub)
- **Telecom Churn Analysis using IBM AutoAI and Watson ML:**
  Developed a Machine Learning Model to predict customer churn in Telecommunication industry using **Regression** techniques, **XGBClassifier.** By changing **Regularization** Parameter to 0.6, ended up obtaining an accuracy of 82%. Written a **Research Paper** for the same. (GitHub)
- **Object Detection using Tensorflow.js:**
  Developed an object detection model using **Tensorflow.js**. I integrated the model into a web application developed using JavaScript to detect the object in real-time, using the live camera feed. The model can detect over 80 real objects. (GitHub)
- **Movie recommendation system:**
  Developed a Machine Learning Model using Pandas, Scikit learn, **TfidfVectorizer** that recommends movies to the users based on their past history. The content-based recommendation system has been trained with **50,000** rows of data. Similar models are being used in Amazon, Netflix, LinkedIn, Spotify and many more applications. (GitHub)

- **Semantic Editing using StyleGAN :**
  A Style-Based Generator Architecture for Generative Adversarial Networks for editing hair attributes on real faces built using **TensorFlow, NumPy, Matplotlib, StyleGAN, Keras, and eval_js**. Also optimized the GPU usage for training and testing the model by using different encoding optimizer functions. (GitHub)
- **Pizza delivery Website :**
  Developed a responsive website using **PHP and Laravel** for a client in United Kingdom and deployed the web application in Heroku. Secured the authentication system and API end points for better security. Also integrated Razorpay payment gateway for making payments through the application. Used caching for fast performance of Website and for performing heavy tasks asynchronously. Integrated **Third Party APIs** for various tasks. (GitHub)

ACHIEVEMENTS

- Invited as a **Delegate** for The **Harvard** Project for Asian and International Relations in-person Conference, 2022.
- Selected as **IBM Z** student 2021 along with 200 other students around the world.
- Secured **1st** place in **Start-up idea & Business prototype** competition conducted by Institutions Innovative Council, which is an initiative of Ministry of Human Resource Development, India.
- Secured **1st** place in college Hackathon for the project of Agro-drone.
- **AWS Machine Learning Scholarship** Recipient 2021.
- Invited to attend **GitHub Field Day India 2021**, which is a conference of 150 students from India and was the only attendee from Telangana.
- Only team consisting of freshman year students entirely to qualify for national round in Smart Indian Hackathon from Hyderabad with more than **1.6 Lakhs** of students.
- Finalist for **Hackoverflow 4.0** Hackathon and stood In **top 15** out of **5000** teams.
- Finalist for **Innerve 6.0** Hackathon, which is India's largest student run hackathon and stood In **top 10** out of **800** teams.
- Semi-finalist in **Eureka! 2021**, which is the largest business model competition in Asia.

Papers and Conferences:

- Dantu Sai Kamal, Dr. G. Gayatri. "**Artificial Intelligence and Machine Learning: A Blended Approach to Understand CO2 Absorption**" – The International Conference on Physical Science and Technology (June 2022)
- Dantu Sai Kamal. **" Event Management System**" Research Gate (January 2022)
- Dantu Sai Kamal. **" Semantic editing using Generative Adversarial Networks and Deep Learning**." Research Gate (December 2021)
- Dantu Sai Kamal. **" Telecom user churn analysis using Machine Learning & IBM AutoAI**." Research Gate (September 2021)
- Dantu Sai Kamal. **" Student Report Card Management using C++"** Research Gate (February 2021)

Certifications:

- Machine Learning with Python – **IBM**
- Machine Learning with Big Data – **University of California San Diego**
- Data Visualization with Python – **Coursera**
- Programming for Web with JavaScript – **University of Pennsylvania**
- Convolutional Neural Networks – **Deeplearning.ai**
- Engineering Virtual Program – **Goldman Sachs**
- Linux for Developers -- **The Linux Foundation**
- Data Visualization -- **University of Illinois at Urbana-Champaign**