



ALLENA VENKATA SAI ABHISHEK

Work Experience

Hewlett Packard Enterprise, Telangana, India

Deep Learning Intern

Jun'22 - Oct'22

- Efficiently **improved** the **accuracy** of the object detection model by **10%** with designing a custom built neural network model over **CNN & ResNet18** model for multiple datasets for the **HPE's AI studio platform**.
- Deployed an **efficient ML Pipeline** for image classification while making the **insights interpretable** for effective decision making with **Explainable AI**. [\[Certificate\]](#)



Blaize, Telangana, India

Research & Development Intern

Sept'21-Mar'22

- Designed & Built an **Image Augmentation Library API** for AI Studio using Flask-restful with an efficient low computational cost. **Unit tested** it vigorously. Smoothly **Integrated the API** to AI Studio.
- Dataset format conversions to **COCO** format and metadata generation. [\[Certificate\]](#)



Aam Aadmi Party, New Delhi, India

Data Analyst Intern

Jun'19 - Sep'19

- As a member of **Data analytics Cell** of the national political party, efficiently extracted of data using python and various libraries such as Numpy, Matplotlib, etc.
- Improved the success rate by **18%** and crucial factors of marketing campaigns for **target audience** based on **big data analytics** using python & the basics of statistics and present all data in the presentable form such as pie charts & graphs, etc. using python. [\[Certificate\]](#)



Visakhapatnam Steel Plant, Andhra Pradesh, India

ML & Data Science Intern

May'19 - Jun'19

- Efficiently **improved** the future **profit margins** of steel production of VSP using the 2-year steel production and revenue data using **ML algorithms** with a **deployment** of a **static website** to **display the findings**. [\[Certificate\]](#)



Taj Animation XP, Andhra Pradesh, India

Web Development & Computer Vision Intern

May'18 - Jul'18

- Successfully created efficient **Static website** that was a clone of Facebook & Efficiently developed **object detection** deep learning based model using YOLO v2. [\[Certificate\]](#)



NICO Info Systems Inc, Telangana, India

Data Analytics Intern

May'17 - Jul'17

- Successfully developed a **Credit card fraud Detection application** by using various Clustering & Machine Learning concepts. [\[Certificate\]](#)



Education

Executive PG in ML & AI, IIIT B, India CGPA: 4.0 / 4.0 Jan'22 - Jan'23

- PG Diploma in ML & AI from IIIT, Bangalore (1st Year)** - Coursework includes exploratory data analysis, data visualization, Hypothesis Testing, Machine Learning, Deep Learning, Computer Vision, Natural Language Processing & Advance Computer Vision.



M.Tech, GITAM University, VSKP, India CGPA: 9.5 / 10.0 Jun'20 - Jun'22

- Major in **Data Science & University Topper** in all campuses. [\[Mark Sheet\]](#)
- Published research papers** in multiple journals based on Deep learning & computer vision.
[IJRAR \[Paper Link\]](#), [JETIR \[Paper Link\]](#), [JREAM \[Paper Link\]](#), [IJERT \[Paper Link\]](#), [IJCT \[Paper Link\]](#), [JARET \[Paper Link\]](#), [IJIRT \[Paper Link\]](#)



B.Tech, VIT University, Vellore, India CGPA: 8.2 / 10.0 Jul'16 - Jul'20

- Major in **Computer Science & Engineering**, - coursework included Computer Vision, ML, python, Data visualization, IOT, Web Development & DBMS. [\[Degree Certificate\]](#)
- Bronze** echelon prize in Hack4cause hackathon by **ICSET 2018** [\[Certificate\]](#)



BGKV, Kolkata, India

Jul'11 - Aug'15

- Class 12: **85.6 %** [\[Mark Sheet\]](#), Class 10 : **10.0/10.0** CGPA [\[Mark Sheet\]](#)
- Merit Certificate for securing **20th** Zeal Rank & **540th** International Rank in 7th SOF-NSO in Feb 2015.
- Recognized with the **Kulapati K.M. Munshi Award** in **Mathematics** on May 2013. (CBSE Stream)



Skills

- Strengths** – OO language (Python), Machine Learning (ML), Data Analysis, SQL, Deep Learning, Research, Object Detection Algorithms, Unit Testing, API, Statistics, Business Analytics, Active Learning, Data Augmentation, Critical and Analytic Problem Solving, Image & Video Understanding, Manipulation and Synthesis, Unsupervised Learning, Image and Video Segmentation, LSTM, Encoder, Decoder, ResNet, YOLO, Generative Models like GANs, Normalizing Flows, Transfer Learning, DBMS (Database management systems), Microsoft Office, Scripting skills, Data Structures and algorithms (DSA), Report Making, GO, Rust, HTML, Explainable AI, SHAP, Node JS, Exploratory Data Analysis, KPIs, Hypothesis Testing, Analytics, Agile, Object detection, Transfer learning, CNN, RNN, ANN, Neural Network(NN), T-SQL, Pyspark
- Tools/Environments**– MySQL, VS Code, Google Colab, Jupyter Notebook, Postgre SQL, Matplotlib, Pandas, Numpy Tweepy, Seaborn, Scikit-learn, SciPy, Deep Learning Frameworks - PyTorch, Tensorflow, Keras, OpenCV, Alumentations, CUDA, Object-oriented programming concepts (OOPs), JSON, PIL, Atlassian, JIRA, Invision, Confluence, GIT bash, XAMPP, PHPmyadmin, Kaggle, Filmora, Postman, MS Excel, Tableau, Django, Canva, HTML, CSS, AWS, AWS Sagemaker, Business/ Risk Analysis, Supervised and Unsupervised Techniques - active learning, transfer learning, neural models, decision trees, reinforcement learning, graphical models, XG Boost, Gaussian, Bayesian models, map reduce techniques, Random Forest, Gradient Boosting, Deep Learning, Azure Synapse Analytics, Microsoft SQL Server Management Studio, WSL, Ubuntu, Linux, Tmux, Screen, Selenium, Flask, Rest-AOI, Docker. , TinyML,

Projects

- **Detectron2 for critical software based systems** - A FAIR software system that implements **advanced object detection algorithms**, by offering **speedy training & manipulation to derive insights** to address the issues companies face during the research to the production phase. [\[Source Code\]](#)
- **Twitter sentimental analysis**-Successfully wrote a clean, well-crafted **python** code for a **twitter sentimental analysis** model with **data manipulation**, data storage & visual effects. Learnt to access token, API extraction & storing data in a **CSV file**. [\[Source Code\]](#)
- **Connect Life: A Social media Website**- Successfully writing a quality code at source to establish a **static** website that can **connect** 2 VITians, with the usage of **HTML, CSS, and JavaScript** with a trained Chat-bot. [\[Source Code\]](#)
- **Face & Emotion Recognition using Python**- Successfully **improved efficiency by 30%** of face detection & Emotion recognition models using python. [\[Source Code\]](#)
- **Hospital Management System**- Successfully fortified one end-to-end **relational database** for Hospital Management system. [\[Source Code\]](#)

Leadership Experience

Nirvana – Technical Fest

Junior Event Head

2021-2022

- Top **5%** of the IEEE student body club. **Promoted** through social media about the events of the annual Technical fest - IEEE, GITAM University. Recruited & lead a team of **40** university students volunteering for P&M with blue box values. [Publicity & Marketing].



Riviera – Cultural Fest

Marketing & Event Coordinator

2018-2019

- Top **4%** of the student body club and recruited & managed a team of **120** university students volunteering for P&M [Publicity & Marketing]. Gained **invaluable experience** in *leadership, excellent problem-solving skills, team building, collaborative teamwork, effective communication, marketing, event workflows & risk management, efficient time for project management with cross-functional teams & exhibiting the ability to adapt to changes*.



Additional Information

Certifications

- NIIT Python Course Certifications. [\[Certificate\]](#)
- Coursera courses.

Social Work Experience

- **ATK spiritual service society (NGO)**: Teacher at NGO, Congregated funds for our annual charity by **25K INR** [2016], **30K INR** [2017], **25K INR** [2018] & **15K INR** [2019]. [\[Certificate\]](#)

Hobbies:

- **Writing Blogs & Quotes** - Posted blogs on **Quora** - [\[Abhishek AVS\]](#) and I have **450K+ viewership** on it.
- **Video Editing & Content creation** - I enjoy editing videos & uploading content on **YouTube**. My YouTube channel is- [\[ALLENA VENKATA SAI ABHISHEK\]](#) & run a few **motivational pages** on **Instagram**
- **Sports & Games** - Used to play Football *Indoor Games* – Chess and Carroms.
- Enjoy listening to music

Languages Known: Fluent in English, Hindi, Telugu, and Bengali