ANANTAPADMANAABHA PRASANNAKUMAR

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SUMMARY:

Passionate and detail-oriented ECE grad student, focusing on Machine Learning, Computer Vision and Computer Graphics, looking for full-time roles. Generalized Specialist, eager to learn, and ability to break down complex problems and translate into modular and robust solution.

EDUCATION:

University of Central Florida (UCF), Orlando, USA   2018 - 2020

College of Engineering and Computer Science   GPA: 3.65/4.0

Master of Science (M. S.), Electrical and Computer Engineering (Signal Processing and Systems)

Interest Areas: Signal and Image Processing, Statistical Learning, Computer Vision, Computer Graphics and its pipelines

Relevant Coursework: Design and Analysis of Algorithms, Algorithms on Strings and Sequences, Machine Learning, Current Topics in Machine Learning, Computer Graphics, Computer Vision, Medical Image Computing, Advanced Computer Vision.

Visvesvaraya Technological University, Bengaluru, India   2011 - 2015

Sir M Visvesvaraya Institute of Technology (Sir MVIT)   First Class

Bachelor of Engineering (B. E.), Electronics and Communication Engineering

Relevant Coursework: Digital Signal and Image Processing

RESEARCH AND TEACHING EXPERIENCE:

Graduate Research Assistant, UCF   2019 - 2020

Project: Real-Time Activity Recognition on Infrared (IR) dataset for a defense contractor.

- Research and development of a multi-label action recognition system with deep learning.
- Researching optimizable surveillance systems for infrared imagery based on action detection and recognition.

Teaching Assistant, UCF

- CAP4720 – Computer Graphics   Fall 2020
- CAP5415 – Computer Vision (graduate-level course)   Fall 2019

WORK EXPERIENCE:

Senior Analyst, Capgemini   2015 – 2017

Bengaluru, India

Project: A Data Warehousing system for a major furniture retailer company.

- With my expertise in database concepts and in writing complex queries, I analyzed performance-related issues and contributed to resolving them.
- Proactively discussed issues with architects for resolving the gap between design and implementation, and was responsible for system stability during pre-and post-production sequences.

NOTABLE PROJECTS:

- Multimodal Brain Tumor Segmentation Using Deep Neural Networks
- A Two-Stream Deep CNN Approach for Anomaly Detection in Surveillance Videos
- Video Object Segmentation on Youtube-VOS dataset.
- Unsupervised Learning on Object Landmarks.
- Visual Relationship Detection Between Objects on OpenImages V5 Dataset.

RELEVANT SKILLS:

- Machine Learning Methods: Linear Models, Support Vector Machines, Decision Trees, Clustering, CNN.
- Programming Languages: SQL and PL/SQL; Python; C and C++; Javascript, HTML and CSS.
- Data Science Libraries: Pandas, Matplotlib, Numpy, Pytorch, OpenCV, Scikit-learn.
- Source Control: IBM Jazz, Git.