PANKAJ KUMAR DIVEDI

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EXPERIENCE

Teaching Assistant

IIT Tirupati

Aug 2019 - Present Andhra Pradesh,India

- Worked in courses Data Structures and Algorithms, Discrete mathematics and Theory of Computation for Undergraduate.
- Served as a teaching assistant at IIT TIRUPATI taking tutorials and lab sessions explaining concepts to students.

SKILLS & COURSES & INTEREST

- Languages:**C, C++, Python**
- Libraries and Tools: **Keras, Tensorflow, CNN, Git, C++ STL**
- Interest :**System Design - Micro architecture - AI/ML - S/W development**
- Courses:
  - Advanced Data Structures and Algorithms
  - Advanced Computer architecture
  - Linear Algebra and Probability Theory
  - Operating System
  - Data Base Managements System
  - Computer Network
  - Machine Learning and AI
  - Distributed System
  - Cloud Computing
  - Industrial Data science and Engineering
  - Industrial Software Engineering

ACADEMIC ACHIEVEMENTS

- AIR 1219 in GATE CS 2019 98.78 percentile
- AIR 30660 in JEE Mains 2014 97.62 percentile
- Hackerrank Problem Solving (Basic) Certificate)
- AI Foundations Machine Learning Certification by Linkedin
- Salam Bharat certification for excellence performance in aptitude and reasoning test.
- Article writing certification by Jan Chetna Foundation.

EDUCATION

M.Tech - Computer Science and Eng.

IIT Tirupati

July 2019 – May 2021 (**8.33 CGPA**)

B.Tech - Information Technology

JSS Academy Of Technical Education, Noida

July 2014 – May 2018 (**69.36 %**)

Intermediate Examination - 12th class

R P J S S M I C, Siddharthnagar

2013 (**91.2 %**)

High School Examination - 10th class

R P J S S M I C , Siddharthnagar

2011(**81 %**)

PROJECTS

GPGPU's Power Consumption Minimization - C

- Building Simulation model for power consumption analysis of GPGPU's by instruction re-ordering and applying power gating. Using **NVIDIA GTX-480** fermi as the basis for implementing our method. Based on dependency generating modified PTX code and passing it to GPGPU simulator.

Food Wastage Management System - Python

- Used Machine Learning Multiple regression model. Collected data set converted it in vector form added extra needed features, defined Loss Function feature weight update Equation.
- Platform: Jupyter(python) in Anaconda.
- Libraries: pandas,numpy,matplotlib,sklearn,seaborn.

Face Recognition System - Python

- Using **Convolution neural network** using a pre-trained multilayer neural network model FaceNet which learns a neural network that encodes a face image into a vector of 128 numbers. built a Triplet Loss function for learning these vectors for face recognition.
- Technologies: **Deep Learning CNN**