

AISHWARYA POTHULA

Machine Learning Engineer

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RESEARCH INTERESTS

Machine Learning, Reinforcement Learning, Artificial Intelligence

ACADEMIC & PROFESSIONAL EXPERIENCE

University of Texas, Arlington, USA

Computer Science PhD student

January 2019-Present

- Working in the Human Data Interaction Lab (HDI) under Dr. Deokgun Park

Caravel.AI, Hyderabad, India

Machine Learning Engineer

April 2017 – Present

Machine Learning Intern

January – April 2017

- Conducting Exploratory Data Analysis, Data Cleaning, and creating model prototypes
- Support development of commercially deployable enterprise scale machine learning systems that provide intuitive solutions to clients.

Projects

- Research and testing for 'Noungraph,' a platform that utilizes machine learning in pattern recognition and report generation from database records.
- Developed and ran LSTMs for a client project.
- Contribute to 'ThinkML,' a project aimed to promote machine learning in a open source community that shares, collaborates and innovates.
- ETL-ing Postgresql based databases using Amazon Redshift.

Kakinada Institute of Engineering & Technology, Kakinada, India

Assistant Professor

June 2015 – January 2017

- Assigned to department of computer science to teach OS, AINN, MFCS for 3rd year undergraduate students.
- Mentor and guide students on project selection, internship opportunities, and career development.
- Organize and facilitate conferences and workshops for students on-campus

Project

- Worked under Professor K.V.Ramana, Professor of Computer Science and Officer on Special Duty, JNTUK, Kakinada
- Project involved creating a serverless ML model via REST API to solve regression problems

Whishworks Pvt. Ltd., Hyderabad, India

Senior Executive, Marketing

November 2014 – March 2015

- Increase awareness and client base for company's 'Cloud based Recruitment Software' product through direct and digital marketing, lead generation, and customer relationship management.
 - Successfully on-boarded five major e-commerce companies to adopt the product, suggested new features and priorities based on popular feedback.
 - Improved Alexa Ranking by more than 60% and drove daily average sign-ups by 50%
 - Hands-on experience in leveraging Google adwords, analytics and SEMrush for advertising, outcome analysis
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PAPERS/PROJECTS PIPELINE

- Lattice: A System for Data Exploration and Connections- submitted and under review by SoftwareX, Elsevier
- A project: SMNIST: A dataset for mathematical symbols-in the pipeline
- A Survey: 'Understanding the exposure of the engineering students in Andhra Pradesh, India'- a survey report analysing the technical, personal, and career skills of engineering students.

CERTIFICATIONS

- Neural Networks and Deep learning, DeepLearning.AI, Coursera
- Convolutional Neural Networks, DeepLearning.AI, Coursera
- Improving Deep Neural Networks: Hyperparameter tuning, Regularizing and Optimization, DeepLearning.AI, Coursera
- Full Stack Deep Learning Bootcamp, conducted at UCB, Berkeley

CONFERENCES

- Participated in and invite only boot camp on 'Full Stack Deep Learning' at the University of California, Berkeley organized by Pieter Abbeel, Sergey Karayev, and Josh Tobin
- Special Speaker at 'Convergeconf,' a conference about progressive technologies organized at Kakinada India for over 5000 college students to speak about recent research in Artificial Intelligence.

RELEVANT TECHNICAL SKILLS

- Programming Languages: C, C++, Java, Python
- Frameworks and Libraries: NumPy, SciPy
- Machine Learning Libraries: TensorFlow, Keras, PyTorch, OpenCV
- Tools: Git, SPSS

ACADEMIC QUALIFICATIONS

Post Graduate Diploma in Management

IIM Indore

August 2012 – June 2014

Relevant Coursework:

Activities & Achievements:

- Member of Placement Committee
- Completed a project on creating a model for child abuse awareness
- Interned at Karvy Stock Broking Ltd. as Equity Research Analyst, performed fundamental analysis on a leading FMCG brand.
- Published a report on the factors contributing to Indian Rupee Depreciation in 2013.

Bachelor of Technology – Computer Science & Engineering

Kakinada Institute of Engineering & Technology, JNT University, Kakinada, India

August 2008 – June 2012

Relevant Coursework:

Achievements:

- Won Academic Excellence Award three times in 1st, 2nd, and 4th years.
- Class Highest Scorer in Managerial Economics and Financial Analysis
- Class **Second Highest Scorer** in Mathematical Foundations in Computer Analysis.

Leadership:

- **Chairperson** Computer Society of India student branch in college. Responsible for organizing technical seminars and social volunteering activities to promote science education amongst underprivileged high school children.
- **Elected Class representative** for four consecutive years to work as SPOC between college management and my class of 86 students.

Paper Presentations:

- **Won First Prize** for Paper Presentation on 'Sixth Sense – A wearable gestural interface' at KIET
- Presented a paper on Brain Computer Interfaces in a technical conference at KIET

Projects:

- **Undergraduate project:** Load Shedding in Mobile Systems
 - Developed software to increase quality of service in location-based, mobile continual query (CQ) systems.
 - Led a team of 5 students and introduced the incremental model of software development within the project.
- **Experimental Project:** Fleet Management System
 - Designed software to better manage the scheduling and allotment for college's transportation.
 - Led and worked with a team of 5 students for the project.

ADDITIONAL INFORMATION

Member of PSF - Python Software Foundation

Volunteering experience: teaching, fundraising, and campaigning experience; associated with National Service Scheme, Sankurathri Foundation, Gideon math & reading, and Aravind Vinayak Vidyalayam-a non-profit school.

National Cadet Corps experience: hold **highest certification** in NCC; worked as **Junior Under Officer** – 18 Andhra Battalion – led and trained 150 cadet contingent in annual training camp conducted by the Indian Army; trained 10 cadets in boat rowing; Selected as **Sergeant** – 18 Andhra Battalion by the commanding officer from over 150 cadets – led and trained 50 cadets in annual training camp conducted by Indian Navy.

Language Proficiency: English, Hindi, Telugu, Sanskrit