VAIBHAV PUNDIR

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EDUCATION

Master of Computer Science, Texas A&M University   Expected 2025
Relevant Coursework: Information Storage & Retrieval, Deep Learning, and Distributed Processing Systems.

Bachelor of Computer Science, PES University   2016 - 2020

SKILLS

Technical Skills	Python, Java, C++, C, Bash, PyTorch, Tensorflow, Node JS, React JS, Next JS, SQL, MongoDB, Docker, Kubernetes, Ansible, Hadoop, Git
Soft Skills	Problem-solving, Attention to detail, Teamwork, Adaptability

EXPERIENCE

Machine Learning Engineer   May 2024 - PRESENT
BrainBit AI   *College Station, TX*

- Built a comprehensive dataset of text-audio pairs for drum sounds, encompassing 100K+ samples, to train the diffusion models.
- Developed state-of-the-art diffusion models for generating realistic drum sounds from text prompts.

Member of Technical Staff - II   Jan 2020 - Jul 2023
VMware Software India   *Bengaluru, INDIA*

- Spearheaded full-stack web development projects using React, Node.js, and Python, deployed via Docker containers, which enhanced UI/UX and resulted in a 40% increase in user engagement.
- Facilitated training for 3 new hires over 6 months, providing continuous guidance, mentorship on best practices, and constructive feedback to ensure their successful integration into the team.
- Engineered a comprehensive unit test framework in Python, reducing testing cycle time by 60%, significantly enhancing developer efficiency across multiple teams.

Software Engineering Intern   Jun 2019 - Jul 2019
Innodata Inc.   *Noida, INDIA*

- Built an NLP framework in Tensorflow, transcribing recorded meeting audio to text with 87% accuracy.
- Engineered an ML model for text summarization, resulting in a 15% improvement in accuracy.

PROJECTS

Outfit Recommendation System

- Utilized the Deep Fashion dataset of over 800K diverse fashion images to construct an outfit recommendation system.
- Developed a VBPR model to personalize recommendations using implicit user feedback and integrated chatGPT for weather-based enhancements.

Tiny Social Network Service

- Built a highly available, scalable, and fault-tolerant social network service using Google RPC in C++.

Motion Deblurring using Deep Learning

- Created a machine learning model in Tensorflow employing Bottleneck Residual Blocks and Gated Fusion Network.
- Achieved a PSNR value of 27.11 with just 8.6 million parameters effectively removing motion-induced blur from images.

EXTRA-CURRICULAR ACTIVITIES

- Active member of the Honor Council at the Aggie Honor System Office.

LEADERSHIP

- Led a team of 6 members to achieve 1st Runner-up in Smart India Hackathon 2019 (Software Edition), outperforming 30+ competing teams nationwide.