FNU ANVIKA

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EDUCATION

Illinois Institute of Technology, Chicago, IL — May 2025
Master of Science, Computer Science — **(GPA** : 4/4)

P.E.S. College of Engineering, Mandya, India. — August 2023
Bachelor of Engineering in Computer Science — **(GPA** : 3.913/4)

SKILLS

Engineering Tools & Software: TensorFlow, PyTorch, Git, Scikit-Learn, Scrapy, Hadoop, Spark
Programming Languages: Python, SQL, Java, R
Data Analysis & Visualization: Power BI, Tableau, Excel (Pivot Tables, Power Query, Macros)
Machine Learning: Scikit-Learn, TensorFlow, NumPy, Matplotlib
Tools & Technologies: Git, Hadoop, Spark, Figma, PowerPoint
Project Management: Agile, Scrum, Waterfall, JIRA, MS Project
Frameworks: Flask, Scikit-Learn
Cloud Platforms: AWS, GCP

WORK EXPERIENCE

- **Graduate Teaching Assistant – Machine Learning**
  Illinois Institute Of Technology — ***2024 Aug - Present***
  - Prepared instructional materials and assignments, and assisted students with machine learning concepts, including supervised learning, neural networks, and data preprocessing techniques.
  - Collaborated with faculty to maintain academic excellence and conducted one-on-one sessions to enhance student comprehension.

- **Internship – Software Engineer**
  Zakthi Innovation Labs, Mandya, India — ***January 2023 – December 2023***
  - Designed and implemented tools and infrastructure for efficient data preprocessing, model training, and deployment of machine learning models, including foundational components for Large Language Models (LLMs).
  - Developed Developed libraries for automating model fine-tuning and collaborated with cross-functional teams to drive innovation in AI model development.

PROJECT EXPERIENCE

- **Graduate Projects:**
  - ✓ **Search Engine Development:** Developed a content retrieval system using Scrapy, Scikit-Learn, and Flask, employing TF-IDF and cosine similarity to rank results efficiently.
  - ✓ **Deep Neural Networks:** Designed CNNs for CIFAR-10 image classification using Python and TensorFlow, exploring data augmentation and advanced architectures.

- **Undergraduate Projects:**
  - ✓ **UV Disinfection Robot**: Created a mobile-controlled robot leveraging UVC light to disinfect surfaces safely and efficiently.
  - ✓ **IoT Smart Parking System**: Developed a parking management solution incorporating real-time slot detection using sensors and an interactive user interface.

PATENTS AND PAPER

- **Patent: A Novel Design for Touch Kiosk**: Developed and patented a touch kiosk for academic use, enabling information gathering and service delivery via a digital screen without human interaction, designed using OnShape software.
- **Applications of Robots in Industry**: Published a conference paper reviewing the role of robotics in fields such as healthcare, military, space, and agriculture.
- **Language Identification from Trilingual Handwritten Documents**: Presented a paper on an efficient language identification technique for Kannada, Hindi, and English documents, achieving 95.83% classification accuracy using discriminating features

VOLUNTEER EXPERIENCE

- Coordinator of Institution Innovation Council at P.E.S. College of Engineering.
- Hosted and participated in many college cultural events and technical discussions.

HONORS AND ACHIEVEMENTS

- Received a funding of $13000 from Government of India, Ministry of Micro, Small and Medium Enterprise Incubation (MSME) in the event of MSME Hackathon 2.0
- Represented PESCE during an interview with the IIT-Madras, Entrepreneurship Development Drive 2022-23 under the seed track.