

Tejus Paturu

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EDUCATION

University of Colorado Boulder
Master of Science in Computer Science- Professional

Aug 2024 - Present
Boulder, CO

National Institute of Technology, Puducherry
Bachelor of Technology in Computer Science Engineering. CGPA: 8.47/10

Graduation Date: May 2024
Karaikal, Puducherry

TECHNICAL SKILLS

Programming Languages: Python, C++, C, SQL, HTML, CSS, WordPress

Machine Learning: TensorFlow, Scikit-learn, PyTorch, Pandas, NumPy, Matplotlib, Mlxtend, NLTK

Databases: Microsoft SQL Server, MongoDB, MySQL

EXPERIENCE

Data scientist, TreoSoft IT Solutions Pvt Ltd | Bangalore, India

Jun 2022 - Sep 2022

- Applied Apriori algorithm to a dataset of **100,000+** transactions for **market basket analysis**, identifying product associations and driving a **15% net sales increase** by recommending product combo strategies.
- Developed and deployed a real-time combo **recommendation system**, integrating with the existing sales platform, which dynamically suggests product combinations.

Research Assistant, National Institute of Technology Puducherry

Sep 2022 - May 2023

- Conducted research under **Dr. B. Surendiran** on an **AI-powered resume classification application**, integrating **NLP techniques** and **TF-IDF vectorization**, achieving a **91% classification accuracy** for over **3,500 applicants**. Presented results at [IConSCEPT 2023](#)
- Conducted research under **Dr. E. Elakiya** on sentiment analysis of **Amazon customer reviews**, applying word embeddings (**Word2Vec**) and compared different classifiers. Presented results at [ICECAA 2023](#)

Software Intern, Ford Motor Private Limited | Chennai, India

May 2023 - July 2023

- Automated data extraction from **Application Lifecycle Management (ALM)** software using **VBScript**, reducing the processing time by **85%** and enabling real-time tracking of project metrics for the development team.
- Designed a **Python-based data analysis pipeline**, implementing matplotlib and pandas for advanced graphical representation, which reduced team-wise data filtering and visualization time **from 2 hours to 1 minute**. This automation is used by **multiple teams** across **multiple geographies**, increasing report generation **efficiency by 97%**.

PROJECTS

- IOT / Bio-metric Security System:** Developed an API to extract attendance records from the **eSSL x990 biometric device**, and integrated the logs into a MySQL database, streamlining attendance tracking. [Tools: Python, MySQL] Completed under the mentorship of **Dr. Chandrasekar R.**, Assistant Professor of Computer Science and Engineering at **NIT Puducherry** | [Project Link](#)
- Deep Learning / Image Processing / COVID-19 Detection using X-Ray Images:** Built a **CNN based lung disease detection system** using chest X-ray Images. [Tools: Python, TensorFlow, CNN, OpenCV] | [Project Link](#)
- Tweets Disaster Classification and Text Analysis:** Automated disaster tweet classification using SVM and text preprocessing techniques like **TF-IDF** and **SMOTE** to address class imbalance. [Tools: Python, SVM, Pandas, NLTK] | [Project Link](#)
- Multi-labelled Protein Subcellular Localization:** Developed a deep learning model utilizing **Protein-BERT embeddings**, **evolutionary profiles (HMM, PSSM)**, and **Gene Ontology** annotations to predict protein subcellular localization across multiple compartments. Achieved significant improvements in prediction accuracy using an **artificial neural network** trained on diverse biological data. [Tools: Python, TensorFlow, Node2Vec, Transformers, HHblits, PSI-BLAST, PCA]

LEADERSHIP EXPERIENCE

President, ACE (Association of Computer Science Engineering)

July 2023 – May 2024

- Spearheaded technical and networking events for a community of 500+ students and professionals, enhancing collaboration and skill-building across the department.

Founder and Administrator, Zer01Coded | NIT Puducherry

Oct 2021 – May 2024

- Founded and administered the coding club at NIT Puducherry, growing it to 200+ members. Organized weekly meetings, coding competitions, and 3 workshops with over 500 participants, fostering problem-solving and creativity. Led and coordinated major events like coding marathons and challenges, promoting technical skill development within the community.

HONORS AND ACHIEVEMENTS

- 1st place in Towne2K22 inter-college coding competition.
- 3rd place in NIE – Ideathon.
- 2nd place in TECH-Zeal 2023
- 1st place in Puzzle Champ (Inter-Nit) at Festember.