MEHUL PRINCE

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B.Tech, Computer Science and Engineering
Address : 1001,Nelson Mandela Hostel SRM Institute of Science and
Technology, formerly SRM University, is a private deemed university,
located in Kattankulathur, Chengalpattu, Tamil Nadu, India.
Founded in 1985 as SRM Engineering College in Kattankulathur,

Links

LinkedIn, GitHub

Education

SRM IST-Kattankulathur   2026
B.Tech · Computer Science and Engineering

Experience

Acceleron Labs   Jun 2024 - Aug 2024
Summer Intern · Developer · Internship   Bangalore,Karnataka

Developed a generic platform validation software.Validation involves following:
- Detection of PCA cards
- Discovery of attached disk
- Basic functionality testing(Network connectivity
- Performance Testing:
-Disk Performance using FIO
-Network Performance using IPERF3
Developed Web Based Dashboard for the Platform Verification Software with a integrated flask backend.

Projects

Platform Validation and Performance Benchmarking Tool | Project-Link   Jun 2024 - Aug 2024
Accerleron Labs · Python, Flask, Paramiko, FIO, IPERF3, Linux   Automation/Full-Stack
Networking,HTML,CSS,JavaScript

- **Developed a generic platform validation software** to automate the verification of hardware and network components across distributed nodes.
- **Implemented functionality** to detect PCIe devices (network and storage controllers), discover attached disks, and verify node-level reachability using ICMP pings.
- **Built SSH-based automation** using Paramiko to retrieve system info, configure network interfaces, and execute remote disk and network performance tests.
- Integrated **disk benchmarking with FIO** and **network benchmarking with iPerf3**, automatically parsing results for IOPS, latency, and CPU usage metrics.
- Designed and deployed a **Flask-based web dashboard** to visualize the validation results and performance metrics in real time.
- Ensured cross-platform compatibility and robustness with automated dependency checks and error handling.

Finetuning MBert for Malayalam POS tagging   Jan 2025 - Present
SRMIST · Academic/NLP Research Project | Python, HuggingFace Transformers,   Natural Language Proccessing
PyTorch, Samanantar Corpus

Fine-tuned the multilingual BERT (mBERT) model on a custom Malayalam Part-of-Speech (POS) tagging dataset to improve syntactic understanding for low-resource NLP tasks.

Used **HuggingFace Transformers and TokenClassification pipelines** to adapt mBERT for sequence labeling specific to Malayalam grammar structures.

Integrated the **Samanantar parallel corpus** to train and evaluate bilingual translation tasks between Malayalam and English using encoder-decoder architectures.

Preprocessed and aligned parallel corpora with tokenization, sentence splitting, and subword encoding to ensure model compatibility and data quality.

Conducted **evaluation using accuracy, F1 score (for POS tagging)** and **BLEU scores (for translation)** to measure model performance on unseen data.

Designed the project for **future extensibility**, including support for domain-specific vocabulary, dialect adaptation, and real-time translation use cases.

Skills

Tools and Technologies: Postgres
Languages and Frameworks: HTML, CSS, JavaScript, Java, React, Flask, Python, Angular
Technical Skills: DSA

Competitions

IMC Prosperity 3   Apr 2025
60th National,387th Global out of 12000 teams · Algorithmic Trading

Volunteering

Shishu Mandir | Organisation Link   Jun 2024 - Jul 2025
Volunteer · Education to children from impoverished backgrounds