Karra Ashish Reddy

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Experience

Backend Developer (GO) May 2024-July 2024
Company: Voice of Truth

- Developed RESTful APIs using the Gin framework in Golang
- Experienced in using go-orm and Viper for efficient data handling and configuration management in Golang applications
- Implemented Flutter UI components and integrated them with backend services and maintained a cross-platform mobile application.

Technical Skills

Languages: Python, Java, C, C++, JavaScript, Golang
Backend: Spring Boot, Servlet and Jsp, Microservices, Node Js, Express Js, Gin
Frontend: React, TailwindCSS, HTML, CSS, MaterialUI, Flutter
Libraries & Databases: PyTorch, Tensor Flow, Scikit learn, Pandas, Numpy, PostgreSQL, MongoDB, SQL

Projects

Better Doc

- Tech stack: **Flutter, Nodejs, Riverpod**
- Developed a full-stack application enabling users to create, edit, and collaborate on documents in real-time.
- Integrated Google Authentication for secure user access and Socket-based communication for seamless live editing.
- Engineered RESTful APIs using Node.js, managed state with Riverpod, and built responsive UI with Flutter.

Decentralized P2P Federated Learning

- Tech Stack: **Python, TCP Sockets, PyTorch, Scikit-learn, MultiThreading**
- Built a fully decentralized peer-to-peer (P2P) federated learning system enabling secure data sharing via custom TCP socket communication.
- Designed a heterogeneous federated setup supporting clients with non-IID data and varied model architectures
- Implemented feature-based knowledge distillation, allowing a high-capacity teacher model to transfer knowledge to lightweight student models using penultimate layer logits.
- Ensured data privacy by transmitting only distilled features, not raw data, and enabled real-time learning exchange through a custom-built socket layer.
- Achieved an average client accuracy improvement of 28%, demonstrating significant performance gains through collaborative learning.

Coding Profiles

Codeforces: Uchiha4444 (Specialist, Max Rating: 1506)
Leetcode: AshishLimitless (Guardian, Max Rating: 2135)
Atcoder: AshishLimitless (Max Rating: 1049)
Codechef: uchihacoder448 (4 Star, Max Rating: 1814)

Achievements

- Secured a global rank of 131 and AIR 24 among 32000 people in Leetcode Biweekly contest 154.
- Secured a global rank of 151 among 32000 people in Leetcode weekly contest 453.
- Participated in ICPC Amritapuri Regionals-2024 and secured a rank of 137 out of 260 team.
- Top 1.5% coder in various coding handles and solved nearly 2000 algorithmic problems

Course work

System Design, Operating Systems, Database Management System, Object Oriented Programming, Computer Networking, Data Structures and Algorithms

Education

Indian Institute of Engineering Science and Technology, Shibpur 2021 - 2025
B.Tech in Computer Science and Technology *8.87/10 CGPA*

Narayana Junior College, Hyderabad 2019 - 2021
Intermediate Education(Maths, Physics, Chemistry) *974/1000*