Asish Kumar Yeleti

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Information Science and Engineering student at
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Education

RV College of Engineering, B.E. in Information Science and Engineering, CGPA: 9.05 — 2023 – Present
Delhi Public School East, 12th CBSE, 96.2% — 2021 – 2023
Ryan International School, 10th ICSE, 96.4% — 2009 – 2021

Experience

Product Developer Intern — Apr 2025 – Jul 2025
einsteini.ai by SpikedAI — *Remote*

- Spearheading mobile application development for AI-powered LinkedIn assistant using Flutter and Dart, targeting 5000+ users
- Contributing to algorithm enhancement to reduce response time through efficient data processing pipelines
- Conducting A/B testing on 50+ beta users to validate product features, achieving good user satisfaction rate

Frontend Developer Intern — Apr 2025 – May 2025
Vortex Media Management — *Remote*

- Assisted in building responsive front-end dashboards using Next.js, reducing page load times by 40% through efficient architecture
- Delivered 15+ user interface components in clean, maintainable code following React best practices and TypeScript standards
- Maintained 100% compliance with security protocols for handling sensitive client data across 3 different backend environments
- Completed all assigned tasks 2 days ahead of schedule while maintaining daily progress reports and proactive communication

Skills

Languages:	TypeScript, JavaScript, Python, Java, Kotlin, C++, C, SQL, Dart
AI & ML:	Machine Learning, Artificial Intelligence, Data Science, Graph Neural Networks, Deep Learning
Libraries:	React, TensorFlow, Framer motion, Pandas, Scikit, Keras
Frameworks:	PyTorch, Flutter, Next.js, Bootstrap, Django, Flask
Relevant Coursework:	Data Structures, Neural Networks, Linux, Cloud Computing

Projects

GPUMesh - *High-Performance GPU Mesh Processing Framework* — *Github*

- Engineered a GPU-accelerated framework for processing large triangle meshes using patch-based data structures enhanced for parallel execution on modern GPUs
- Implemented custom CUDA kernels achieving 20-120x speedups over CPU libraries and 3-8x performance gains
- Established high-level programming model abstracting CUDA complexity while supporting vertex normals, curvature computation, geodesics, and mesh deformation
- Achieved 30-40% memory reduction through compressions and streamlined attribute management with structure-of-arrays design
- Built comprehensive benchmark suite including Laplacian smoothing, spectral parameterization, and physical simulation with cross-GPU compatibility

KnapsackML - *ML-powered Knapsack Problem Solver* — *Github* *Live*

- Enhanced traditional knapsack solving by building hybrid ML approach achieving 97% optimal solution quality while reducing solving time by 90%
- Implemented Random Forest model with 500 estimators achieving 91% accuracy on test datasets, incorporating feature engineering with 40+ specialized metrics
- Designed solution enhancement algorithms including feasibility repair, local search improvement, and capacity maximization
- Established comprehensive API using FastAPI with multiple solver endpoints handling 200+ requests per minute while maintaining 99% availability

QuikCart - *Flutter-based Mobile Shopping Application* — *Github*

- Architected cross-platform mobile shopping application using Flutter and Dart, reducing development time by 40% compared to native alternatives
- Integrated secure payment processing with Razorpay API reducing checkout time by 35%, with Firebase Authentication for robust user management
- Enhanced Dart code performance achieving 60+ fps UI with custom animations and reduced app size by 25%

Licenses & Certifications

- **CCNA: Introduction To Networks** - Cisco Networking Academy (Issued June 2025)
- **Data Science for Engineers** - NPTEL (Issued April 2025)
- **Introduction to Programming Using Java** - Infosys Springboard (Issued Jan 2024)

Extracurricular Experience

Senior Member at Coding Club – Led dev projects, organized coding contests, and mentored juniors — Sep 2023 – Present
Member at Astra Robotics – Contributed to rover control system for URC 2025 prototype — Nov 2024 – Present
Senior Member at RV QuizCorp – Co-hosted UTPT 2025 with 500+ participants across India — Oct 2023 – Present
Volunteer at CSITSS 2024 – Facilitated conference logistics and speaker coordination — Nov 2024