Akshat Kumar

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C++ — Python — Shell scripting — AI/ML model development (TensorFlow, PyTorch) — Data pipeline design — Algorithm & system software development — Experienced in automatic code generation, embedded AI, and compiler-related tooling.

EDUCATION

- **National Institute of Technology Delhi**   New Delhi, India
  Master of Technology - Computer Science Engineering (Analytics); GPA: 8.6   *August 2024 - June 2026*

- **Guru Gobind Singh Indraprastha University**   New Delhi, India
  Bachelor of Technology - Computer Science Engineering; GPA: 8.05   *August 2017 - June 2021*

SKILLS SUMMARY

- **Programming & Languages**: C/C++, Python, Shell scripting, SQL, JavaScript
- **Frameworks & Platforms**: Docker, Kubernetes, Node.js, LAMP stack
- **Software Tools & Systems**: Git, PostgreSQL, MySQL, SQLite, GCP, Hadoop, Spark
- **Algorithm, Embedded & System Software**: OOP, algorithm design, data pipelines, RESTful APIs, compiler-related tooling, automatic code generation
- **AI/ML & Modeling**: Model prototyping (TensorFlow, PyTorch), NLP, signal/image processing, embedded AI workflows
- **Soft Professional Skills**: Collaborative problem-solving, communication, leadership, time management, customer-facing mindset

EXPERIENCE

- **STMicroelectronics**   Greater Noida, India
  AI/ML Intern – Digital Transformation & Information Technologies   *June 2025 – Present*

  - **Generative AI & LLM POCs**: Co-developed proof-of-concept solutions using foundation models (LLMs), fine-tuning and adapting them for internal use-cases in IT architecture contexts.
  - **Data Pipeline & Dataset Preparation**: Built data ingestion pipelines, handled data cleaning, labeling and preprocessing tailored for NLP and vision-based AI workloads.
  - **Model Development**: Implemented AI/ML algorithms leveraging Python and frameworks such as TensorFlow/PyTorch, focusing on NLP or computer vision tasks.

- **Accenture Pvt. Ltd.**   Gurugram, India
  Data Engineering, Management & Governance Analyst (Full-time)   *October 2021 - November 2024*

  - **Collaboration & Problem-Solving**: Collaborated with cross-functional teams in agile environments to design, implement, and test software solutions, ensuring production-quality code with automated unit and integration tests.
  - **Data Governance & Attention to Detail**: Ensured robust data quality and governance compliance within Hadoop-based systems, optimizing data integrity for enterprise applications.
  - **Innovation & Technical Excellence**: Consistently delivered high-performance solutions, exceeding expectations and contributing to team success through innovation and technical expertise.

PROJECTS

- **BolSaathi – Voice-first AI for Healthcare Access**: Designed a multilingual, voice-based solution for underserved users, enabling healthcare information retrieval via speech recognition, NLP, and text-to-speech integration.   (July '25)
- **NexFinCo – Credit Management Platform**: Built a scalable platform using Python and polyglot persistence to streamline credit processing and enhance credit scoring through integrated payment APIs and efficient data modeling.   (November '24)

HONORS & AWARDS

- Graduate Aptitude Test in Engineering (GATE) – Qualified 2025 (Score: 560), 2024 (Score: 515)
- Professional Machine Learning Engineer Certification – Google Cloud (Sep 2024)
- Professional Cloud Architect Certification – Google Cloud (Jul 2024)
- AWS Certified Cloud Practitioner – AWS (Nov 2022)
- Campus Winner – SMC Mechatronics Cup (2019)