

Ashish Acharya — आशीष आचार्य

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EDUCATION	<i>Ph.D. in Computer Science</i> Old Dominion University (Norfolk, VA, USA) Research focus on Machine Learning & AI	Fall 2025 – Present
RESEARCH EXPERIENCE	<i>B.E. in Computer Engineering</i> Tribhuvan University, Paschimanchal Campus (Pokhara, Nepal) Distinction (82.76%) Ranked top 3 of 48 students.	2019 – 2024
PROFESSIONAL EXPERIENCE	<i>Video-Based Vehicle Classification</i> Final Year Research Project (Nepal) <ul style="list-style-type: none">▪ Evaluated YOLO-v8 for traffic surveillance under varying conditions (day/night/rain).▪ Classified CCTV footage frames based on environmental factors.▪ Analyzed accuracy across traffic densities and developed insights.▪ Built a model for efficient traffic monitoring.	Jul 2023 – Feb 2024
COURSEWORK AND SKILLS	<p><i>Backend Developer</i> Skybase Innovation (Pokhara, Nepal)</p> <ul style="list-style-type: none">▪ Sole developer for backend of CUPID (dating app) – database design, queries optimization.▪ GearChecker (Norway project): Laravel backend, Livewire, MySQL, many-to-many relations.▪ Contributed to GharDurbar, Sky Gyan, Talent (with Elasticsearch), and Pokhara College CMS. <p><i>Backend PHP (Laravel) Intern</i> TukiSoft Pvt. Ltd. (Pokhara, Nepal)</p> <ul style="list-style-type: none">▪ Built a solo project: Ad management system.▪ Worked on LMS, consultancy websites, e-learning systems with payment integrations. <p><i>Computer Science:</i> Artificial Intelligence, Data Mining, Big Data, GIS, Distributed Systems, Computer Networks & Security, Database Management Systems (DBMS), Operating Systems, Software Engineering, Theory of Computation, Compiler Design, Computer Graphics, Data Communication, Object Oriented Analysis & Design, Data Structures & Algorithms, Simulation & Modeling, Information Systems, Internet & Intranet, Digital Signal Analysis & Processing.</p> <p><i>Mathematics:</i> Mathematics I, II, III, Applied Mathematics, Numerical Methods, Probability & Statistics, Discrete Structures.</p> <p><i>Electronics & Engineering Core:</i> Digital Logic, Microprocessors, Computer Organization & Architecture, Instrumentation I & II, Electronic Devices & Circuits, Electrical Circuits, Embedded Systems, Electrical Machines, Engineering Physics, Applied Mechanics, Thermodynamics, ICT Project Management, Engineering Economics.</p>	Apr 2024 – Dec 2024 Nov 2023 – Dec 2023

Languages and Tools: Laravel (Proficient), Python (NumPy, Pandas, PyTorch, TensorFlow), SQL, C, C++, PHP, JavaScript, Git, L^AT_EX.

HONORS AND AWARDS	<i>Winner – Skybase Innovation Hackathon</i>	2024
	<i>Full Government Scholarship – B.E. Computer Engineering</i>	2019 – 2024
	<i>IOE Entrance Exam – Ranked 362/20,000+</i>	2019
	<i>High School Topper – Science Stream</i>	2018