

Aagat Pokhrel

COMPUTER ENGINEER & ASPIRING MS CS STUDENT

PERSONAL DATA

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EDUCATION

NOV 2018 - APR 2023 Bachelor's in Computer Engineering
IOE Pulchowk Campus, Tribhuvan University, Lalitpur, Nepal
GPA: 76.84 %

JUN 2016 - APR 2018 +2 (11th and 12th grade) in Science Faculty
Computer Science Specialization, **Everest Secondary School**, Biratnagar, Nepal
GPA: 3.79/4.0

MAR 2016 Secondary School Graduation (10th grade)
Everest Secondary School, Biratnagar, Nepal
GPA: 3.7/4.0

RESEARCH WORK

APR 2022 - MAR 2023 Generating Video Presentations from Articles
Research based project that proposes pipeline involving feature extraction, clustering, ranking, summarization, slide creation, speech synthesis and video generation
THESIS LINK: [Generating Video Presentations from Articles | Aagat Et. al](#)
PROJECT LINK: [Github](#) | [Slideit](#)
Reference: [Dr. Sanjeeb Prasad Panday](#)

WORK EXPERIENCE

JUL 2023 - CURRENT Software Engineer at Sandbox Software Pvt. Ltd, Nepal
Working on Computer vision and Bot development specially using Python, openCV and machine learning models. Also developed and implemented APIs for various services in the products
Reference: [Pradish Bijukche, Founder, Sandbox Software Pvt. Ltd.](#)

NOV 2022 - MAY 2023 Data Engineer Intern at Code Rush Pvt Ltd, Nepal
Implemented data engineering pipelines and worked on AWS cloud services such as AWS Glue, AWS Kinesis along with SQL and Python for deploying data intensive applications
Reference: [Abhishek Thapa, Project Coordinator, Code Rush](#)

PROJECTS

NOV 2021 - MAR 2022	Kathak - Audio Reader Comprehension <i>Academic Project,</i> Implemented a project utilizing research on language models and speech to comprehend stories, presenting them interactively. GITHUB LINK: Github Kathak REFERENCES : Prof. Dr. Subarna Shakya
JUN 2021 - SEP 2021	Personal Covid Tracker <i>Academic Project,</i> Developed as part of the Software Engineering course in Computer Engineering, IOE, TU. It tracks the COVID status of known individuals and presents the data graphically. GITHUB LINK: Github Personal Covid Tracker
JUL 2021 - OCT 2021	Graphix - Modeling Dharahara <i>Academic Project,</i> Developed as part of the Computer Graphics course in Computer Engineering, IOE, TU. Created a graphics renderer from scratch for modelling Dharahara, Nepal. GITHUB LINK: Github Graphix
NOV 2019 - MAR 2020	SpaceRush: Multiplayer Game <i>Personal Project,</i> Created a multiplayer space shooting and racing game using C++ and SFML, incorporating complex physics and rendering. GITHUB LINK: Github SpaceRush
JUL 2023 - SEP 2023	League Client: Client for League of Legends Game <i>Open Source Contribution,</i> Contributed to the login phase and parsed game data for stats in the League Client open-source project. GITHUB LINK: Github LeagueClient

ACTIVITIES

JAN 2023	Organizer at Yomari Coding Competition at LOCUS 2023 Involved in management and planning of a technological event that involved more than 100 participants Reference Certificate
JUL 2022	Mentor & Instructor at Software Fellowship Was responsible for designing and planning the courses as well as mentoring and teaching software systems to juniors through hands-on-experience Reference Certificate
FEB 2021	Instructor at Version Control Workshop organized by IT Club, Pulchowk Campus Was responsible for designing the course and teaching freshmen students about Version Control systems and their applications Reference Certificate
MAR 2019	Volunteer at LOCUS 2019, A National Technological Event Was responsible for providing assistance in organizing and managing different programs within the event

RELEVANT SKILLS

PROGRAMMING LANGUAGES: C/C++, Python, Javascript, Java, Golang, HTML/CSS, Bash Script
RESEARCH LIBRARIES: Pytorch, Numpy, Scipy, Pandas, OpenCV
SOFTWARE DEV TOOLS: MySQL, Postgres, Git, Github
DEPLOYMENT TOOLS: AWS & Azure services, Docker, Kubernetes

TRAININGS & CERTIFICATIONS

- **RaraLabs Mentorship Program 2023**
Obtained a fellowship as a mentee, gaining insights and feedback for the final year research project, fostering collaboration and knowledge exchange.
- **AWS Academy Machine Learning Certification**
Explored fundamental machine learning concepts, honing skills in model development. [Certificate](#)
- **AWS Academy Data Analytics Certification**
Studied foundations of data analytics, applying knowledge to analyze and interpret data effectively. [Certificate](#)
- **IBM's Data Engineering Certification**
Gained hands-on experience in data engineering and pipeline construction, enhancing proficiency in managing and processing large datasets. [Certificate](#)
- **BI Workshop by LIS, Nepal (2023)**
Participated in a hands-on Business Intelligence workshop, acquiring practical skills in utilizing PowerBI for insightful data visualization and analysis.
- **AWS Academy Cloud Foundations Certification**
Explored the foundations of cloud computing, acquiring practical skills in utilizing various AWS services for scalable and efficient cloud solutions. [Certificate](#)