

AATMA PRAKASH ADHIKARI

MPhil/PhD Scholar

Central Department of Population Studies

Tribhuvan University, Nepal

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ACADEMIC PROFILE

MPhil/PhD Scholar at the Central Department of Population Studies, Tribhuvan University, Nepal, with an interdisciplinary academic and professional background in population studies, media technology, rural development, software development, digital technology, and organisational leadership.

More than 20 years of professional experience in full-stack web development, application development, digital platforms, and technology leadership, working with international and local organisations.

EDUCATION

❖ MPhil/PhD in Population Studies

Central Department of Population Studies

Tribhuvan University, Nepal

Status: MPhil/PhD Scholar

❖ **Master's in Media Technology (MMT)**

Shepherd College , Kathmandu (Purbanchal University, Nepal)

❖ **Bachelor's in Rural Development**

Patan Multiple Campus Lalipur, (Tribhuvan University, Nepal)

SELECTED PROJECTS

❖ **AI Health Chatbot**

Developed an AI-powered conversational application for a health and population-related context using Python and modern web technologies.

❖ **MigrantLens**

Designed and developed an independent research application for analysing digital data related to population and migration.

❖ **Community Digital Storytelling Platform**

Designed and developed a digital platform supporting citizen journalism, community storytelling, and digital communication in Nepal.

PROFESSIONAL EXPERIENCE

❖ **AI Application Developer & Team Leader**

AndMine AI Agency, Australia / AndMine Nepal Pvt. Ltd.

Remote, Nepal | July 2013 – Present

- Lead a development team working on digital applications for Australian and international clients.
- Design and develop full-stack web applications and digital systems.

- Manage projects from requirements analysis through development, deployment, and maintenance.
- Provide technical leadership, system architecture, code review, and development support.
- Collaborate with international teams in remote and cross-cultural working environments.
- Develop technology-based applications for research, communication, and business purposes.

❖ **Chairman / Chief Editor**

ShivaJyoti Group Pvt. Ltd. / Jyoti Khabar

Nepal | 2020 – Present

- Lead editorial and organisational activities of the digital news platform.
- Lead editorial and organisational activities of the digital news platform.
- Oversee digital media and editorial operations.
- Coordinate content planning, digital publication, and online communication.
- Engage with community-level issues and public-interest information.

❖ **Managing Director / Lead Developer**

LogicBit Solution — AI & Digital Agency

Under ShivaJyoti Group Pvt. Ltd. | Nepal

- Lead digital technology and software development activities.
- Manage development projects and technical teams.
- Design and develop web-based digital applications and business solutions.
- Lead technical planning, implementation, and project delivery.

❖ Founder / Director

LUVYA Trading Pvt. Ltd.

Kathmandu Nepal

- Lead business development and organisational strategy.
 - Conduct market and product research.
 - Develop product distribution and supply-chain initiatives.
 - Manage business development and operational activities.
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TECHNICAL SKILLS

❖ Full-Stack Web Development

End-to-end web application development, system architecture, API integration, database integration, performance optimisation, web security, testing, deployment, and maintenance.

❖ Backend Development

Languages: Python, PHP, JavaScript, TypeScript, C#

Frameworks & Technologies: Laravel, CodeIgniter, Node.js, NestJS, Express.js, Django, FastAPI, ASP.NET, ASP.NET Core

APIs & Services: REST API, JSON, API integration, authentication, authorisation, third-party service integration

AI & LLM Technologies: Prompt Engineering, LLM Integration, AI API Integration, conversational AI, and AI-assisted application development.

❖ Frontend Development

Languages: HTML5, CSS3, JavaScript, TypeScript

Frameworks & Libraries: React, Next.js, Vue.js, Nuxt.js, jQuery, Bootstrap

Responsive design, component-based development, UI integration, and frontend optimisation.

❖ **Application Development**

Web applications, business applications, data-driven applications, research applications, dashboards, reporting systems, content management systems, API-based applications, and conversational applications.

❖ **Database Management**

Relational: MySQL, MariaDB, PostgreSQL, SQLite, Microsoft SQL Server

NoSQL: MongoDB

Database architecture, schema design, data modelling, indexing, query optimisation, data migration, backup and recovery.

❖ **Data Analysis & Visualisation**

Python-based data analysis, data cleaning and preprocessing, exploratory data analysis, statistical data processing, data transformation, data visualisation, research data management, and interactive dashboards.

❖ **Research & Digital Data Tools**

Digital data collection, survey and research applications, text data processing, research databases, data dashboards, data extraction, transformation, and analytical tools.

❖ **DevOps, Hosting & Deployment**

Linux, Git, GitHub, GitLab, Docker, AWS, DigitalOcean, VPS, cPanel/WHM, SSH, FTP/SFTP, server deployment and configuration, SSL/HTTPS, and domain/DNS management.

❖ **Web & Digital Technologies**

WordPress, WooCommerce, SEO, Google Analytics, SMTP/email systems, web security, website performance optimisation, caching, and digital platform management.

❖ **Development Tools**

Visual Studio Code, Visual Studio, Postman, Git, GitHub, GitLab, npm, Composer, Docker.

❖ **Software Architecture & Engineering**

MVC architecture, modular application design, object-oriented programming, software development lifecycle, version control, code review, debugging, performance optimisation, and security best practices.

PROFESSIONAL CERTIFICATIONS

❖ **Web Application Development**

National Web College, Kathmandu
2000–2002

❖ **Advanced Diploma in Computer Engineering**

Web Com Technology, Pokhara
2003–2007 - USA Technology Curriculum

LEADERSHIP & PROFESSIONAL ACTIVITIES

- Development team leadership

- International project coordination
 - Digital media management
 - Technology entrepreneurship
 - Community engagement
 - Cross-disciplinary project development
 - International client collaboration
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PROFESSIONAL MEMBERSHIP

International Union for the Scientific Study of Population (IUSSP)

Student Associate Member

LANGUAGES

Nepali: Native

English: Fluent

Hindi: Conversational

REFERENCES

❖ **Professor Dr.Mahendra Prasad Sharma**

PhD Head

Central Department of Population Studies Tribhuvan University, Kirtipur, Nepal.

❖ **Assistant Professor Dr. Uddhav Sigdel**

Central Department of Population Studies, Tribhuvan University, Kirtipur, Nepal