

Bishal Neupane

Portfolio: www.bishalnneupane.com.np

LinkedIn: [linkedin.com/in/bishalnneupane](https://www.linkedin.com/in/bishalnneupane)

Email : contact@bishalnneupane.com.np

Mobile : +9779807477734

GitHub: github.com/bishalnneupane1

Pokhara-19, Pokhara, Nepal

EDUCATION

- **Agriculture and Forestry University (AFU)** Rampur, Nepal
Bachelor of Science in Agriculture; GPA: 3.2 *April 2021 - Present*
 - **Quantitative Coursework:** Strong foundation in statistics, research methodology, data collection, and agricultural data analysis with emphasis on statistical modeling and experimental design.
- **Manimukunda College** Butwal, Nepal
Higher Secondary Education (+2); GPA: 3.49 *January 2017 - January 2020*

EXPERIENCE

- **Open Mapping Hub Asia Pacific** Remote
Open Mapping Guru - GIS & Data Analysis *Jan 2024 - Present*
 - **Geospatial Data Quality Assessment:** Achieved 20% improvement in mapping accuracy through systematic validation of 5,000+ geographic data points using OpenStreetMap and GIS analytical techniques.
 - **Large-Scale Data Processing:** Corrected and updated over 300 map data points across 15+ regional datasets, enhancing data quality by 25% using Python-based geospatial analysis tools.
 - **International Team Coordination:** Led cross-functional collaboration with 8 international team members, resulting in 40% increase in regional mapping contributions over 6-month period.
- **PMAMP Morang (Prime Minister Agriculture Modernization Project)** Nepal
Agricultural Research Intern - Data Analysis *5-month intensive program*
 - **Experimental Data Collection:** Designed and executed controlled field experiments on 50+ okra plants, collecting over 200 data points on growth metrics and yield optimization using hormone treatments.
 - **Statistical Analysis:** Performed comprehensive statistical analysis on 3 different hormone concentration levels, achieving 15% improvement in crop yield through data-driven treatment optimization.
 - **Research Documentation:** Created detailed research reports with 10+ statistical visualizations, presenting findings to 5-member research team and project stakeholders.
- **OpenBootCamp** Remote
Software Engineer Intern - Performance Analytics *Oct 2023 - Dec 2023*
 - **Website Performance Optimization:** Analyzed performance metrics across 25+ web pages, implementing optimizations that reduced load times by 20% and improved user experience scores by 18%.
 - **User Analytics Implementation:** Developed user behavior tracking system for full-stack application serving 500+ users, increasing user retention by 30% through data-driven UX improvements.
 - **Code Quality Enhancement:** Reviewed and optimized 1,000+ lines of code, reducing application errors by 35% and improving overall system stability.

DATA SCIENCE PROJECTS

- **AI-Powered LinkedIn Content Generator:** Architected a full-stack web application using Python, FastAPI, and Google Gemini AI to generate SEO-optimized content for 7+ industries. Engineered an AI-powered "Success Content Improver" achieving 95%+ predicted viral success rate with real-time trend analysis and AI image prompt generation.
- **NEPSE AI Trading Platform:** Architected a full-stack AI trading platform for Nepal Stock Exchange using Python and Flask. Integrated Google Gemini AI delivering intelligent recommendations, news sentiment analysis, and portfolio health assessments for 240+ stocks. Features multi-portfolio management, real-time WebSocket alerts, and backtesting engine with 4 trading strategies.
- **Automated NEPSE Trading Signal System:** Engineered comprehensive stock analysis tool using Google Apps Script processing data for 250+ NEPSE stocks. Implemented multi-factor scoring model with advanced technical indicators (RSI, MACD, Bollinger Bands) generating and distributing daily trading signals via automated email system.
- **Precision Agriculture Analysis - Kaski, Nepal:** Analyzed 500+ hectares of agricultural land using Google Earth Engine and Sentinel-2 satellite imagery. Implemented K-Means clustering algorithm achieving 85% accuracy in land-cover classification across 6 categories. Calculated 5 vegetation indices (NDVI, NDWI, SAVI, GCI, PSRI) for 200+ farm plots.

- **GAVS Puranchaur Organizational Website:** Developed full-stack website using Django for student NGO featuring comprehensive custom-built Content Management System (CMS). Engineered modules for dynamic blog, event calendar, photo gallery, and team profiles with modern mobile-first responsive UI using Bootstrap 5.

TECHNICAL SKILLS

- **Python Data Science:** Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, Jupyter Notebook, Anaconda Navigator
- **Statistical Analysis & ML:** Machine Learning, Statistical Modeling, Exploratory Data Analysis (EDA), Pattern Recognition, TensorFlow, Keras, K-Means Clustering
- **Specialized Analytics:** Google Earth Engine, Remote Sensing, GIS Analysis, Geospatial Data Science, Satellite Imagery Analysis (Sentinel-2, Landsat)
- **Data Visualization:** Matplotlib, Seaborn, Power BI, Tableau, R (ggplot2), Advanced Excel Charts
- **Programming & Tools:** Python, R (100+ hours), SQL, Git, GitHub, Google Analytics, Power Query
- **Research & Analysis:** Experimental Design, Statistical Computing, Research Data Analysis, Time-Series Analysis, Scientific Methodology

CERTIFICATIONS & EDUCATION

- **Associate Data Scientist with Python:** DataCamp - Advanced Python data science libraries and statistical modeling
- **Google Data Analytics Certificate:** Google - Comprehensive data analysis, visualization, and statistical techniques
- **Understanding Data Science:** DataCamp - Core data science principles and methodologies
- **Elements of AI:** MinnaLearn - AI fundamentals and machine learning concepts

INVOLVEMENT

- **IAAS Nepal LC Puranchaur** Puranchaur, Kaski
VP of Communication February 2022 - Present
 - **Social Media Management:** Handled social media, design posts, conduct meetings, and analyze data for IAAS NEPAL LC PURANCHOUR.
- **GAVS Puranchaur** Puranchaur, Kaski
Vice-Coordinator November 2021 - Present
 - **Workshop Coordination:** Conducts physical workshops, designs and posts social media content, conducts online and physical meetings, manages regular Facebook posts, and works as a field coordinator for the organization.

ACHIEVEMENTS

- **National Exchange Coordinator Meeting:** Attended the "National Exchange Coordinator Meeting 2022" organized by IAAS Nepal LC Puranchaur.
- **Sports Achievement:** 1st place in Volleyball game at "Mitramani Memorial Sports Week 2080" organized by SV Puranchaur.