

# Bishal Neupane

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Pokhara-19, Puranchaur, Nepal

## EDUCATION

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- **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

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- **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

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- **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.
- **NDWI Water Body Analysis - Pokhara Lekhnath:** Processed 2+ years of satellite imagery data covering 120 square kilometers. Identified seasonal water patterns with 90% accuracy and detected 15+ environmental changes supporting urban planning decisions for 300,000+ residents.
- **NEPSE Stock Recommendation System:** Developed MACD algorithm analyzing 2+ years of historical data for 50+ stocks. Achieved 75% prediction accuracy and generated trading signals with 12% average return improvement. GitHub: [github.com/bishalnneupane1/trading\\_macd](https://github.com/bishalnneupane1/trading_macd)
- **Netflix Content Analysis:** Analyzed dataset containing 8,000+ movies and TV shows across 10+ genres. Created 15+ statistical visualizations revealing content trends over 20-year period. GitHub: [github.com/bishalnneupane1/netflix\\_data\\_analysis\\_project](https://github.com/bishalnneupane1/netflix_data_analysis_project)
- **Nobel Prize Statistical Analysis:** Processed 100+ years of Nobel Prize data covering 900+ laureates across 6 categories. Identified demographic trends with 95% statistical significance and created 8+ data visualizations. GitHub: [github.com/bishalnneupane1/nobel\\_prize\\_winner\\_analysis](https://github.com/bishalnneupane1/nobel_prize_winner_analysis)

## TECHNICAL SKILLS

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- **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

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- **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

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- **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

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- **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.