PRIYANKA NAGABHUSHANA

Project data manager

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Zurich, Switzerland

priyankanagabhushana

Google scholar in priyanka-nagabhushana-pn27/



EXPERIENCE

Project Data Manager

Inselspital

Bern, Switzerland

Nov 2022 – Present

- Involved in writing manuscripts for publication, writing code to perform cohort-specific case-control patient selection with incidence density sampling, and analysis of genetic data.
- Collecting pharmacogenomics data from STCS (Swiss Transplant Cohort Study), SHCS (Swiss HIV Cohort Study), and SCQM (Swiss Clinical Quality Management).

Thesis

Inselspital

Bern, Switzerland

Dec 2021 – June 2022

- Developed a GUI that works on both Windows and macOS to generate accreditation-ready reports, including advanced statistical comparison tables, regression plots, and Bland-Altman plots, assisting practitioners of medicine, pharmacy, and researchers in running standard routines in method verification.
- The GUI was developed in Python using Tkinter and can take inputs as CSV and produce accreditation-ready reports in PDF format.

Four-Weeks Project Institute of Pathology

Bern, Switzerland

Sep 2021 - Oct 2021

- Segmented the tumor region in whole slide images of Triple Negative Breast Cancer (TNBC) using a deep learning model.
- Manually annotated digitized images using QuPath software and exported annotations into GeoJSON format.
- Processed high-resolution images into small patches and associated masks for training and testing the deep learning model.
- Achieved a final model performance of around 82% accuracy.

Assistant Manager

Sri Vijayalakshmi Engineering

Bangalore, India

- May 2016 Aug 2019
- Managed product orders, ensured timely delivery, and handled payroll, manufacturing, and tax.
- Utilized tools like Tally and Microsoft Excel for efficient management.

Lecturer of Mathematics and Science

Arvind International School

Tumkur, India

June 2015 - April 2016

• Taught Science to secondary school students and Mathematics (Calculus, Trigonometry, Algebra, etc.) to higher secondary school students.

SKILLS

Deep Learning PyTorch

Computer Vision OpenCV

Machine Learning

Scikit-learn

Data Manipulation and Analysis NumPy, Pandas

Database Management SOL

Programming Languages

R, Python, MATLAB, CAD, KEIL (8086, 8051)

Computer Tools

EDUCATION

Microsoft Office (Excel, Word, Power-Point), VMWare

Operating Systems Windows, Mac, Linux

Master's in Bioinformatics and Computational Biology

University of Bern

September 2019 - August 2022

Thesis: Deployment of an Automated Method Verification Software Project: Applications of Machine and Deep Learning on Digital Pathology Images

Grade Obtained: 5.5 / 6.0

Bachelor of Engineering in Biomedical Engineering

Visvesvaraya Technological University

September 2009 - June 2013

Thesis 1: Traffic Control System Using NXP Microcontroller

Thesis 2: MEMS-based Drug Delivery System

Grade Obtained: 5.0 / 6.0

AWARDS AND HONORS



Best Teacher Award

Arvind International School, 2016

• Graded assignments and tests for the students.

Product Specialist/Application Specialist

Ayuh Meditech Solutions Pvt Ltd.

Bangalore, India

Jan 2013 - Jan 2015

- Gained technical expertise in the company's medical devices and served in the service and system engineering team.
- Responsible for the sale of the company's technical products to various hospitals and presented medical products to clients, resolving their queries
- Collected feedback on existing and new products and conducted competitive analysis.

Internship

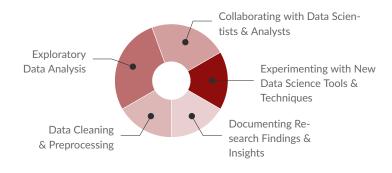
Pro Square Infotech

Bangalore, India

March 2013 - June 2013

- Part of a team that developed a MEMS-based drug delivery system, involving programming a PIC Microcontroller using assembly language.
- Utilized tools like C, embedded system programming, and GSM module for the project.

A TYPICAL DAY



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Best Performer Award

Achieving the Production Target in 2 Months Instead of 3 Months, 2015



Award for Best Classical Dance Performance 2005

LANGUAGES

English Kannada Hindi German



PUBLICATIONS

Journal Articles

- P. Nagabhushana, C. Rütsche, C. Nakas, and A. B. Leichtle, "Deployment of an automated method verification - graphical user interface (mv-gui) software," MDPI-BioMedInformatics, 2023.
- P. Nagabhushana, C. Rütsche, C. Nakas, and A. B. Leichtle, "Digital health, big data and smart technologies," *Clinical Chemistry* and Laboratory Medicine (CCLM), vol. 61, no. s1, s968–s986, 2023. DOI: doi:10. 1515/cclm-2023-7045.
- H. Witte, T. U. Blatter, P. Nagabhushana, et al., "Statistical learning and big data applications," *Journal of Laboratory Medicine*, no. 0. 2023.

Conference Proceedings

- P. Nagabhushana, C. Rütsche, C. Nakas, and A. B. Leichtle, "Method verification - graphical user interface software," in Worldlab - Euromedlab Roma 2023, vol. 61, 2023.
- P. Nagabhushana et al., "Participated in national level student's symposium, bme explore-2012," in BME Explore-2012, Davangere, India, 2012.
- P. Nagabhushana et al., "Participated in short term training on biomedical instrumentation and techniques of medical imaging and diagnosis," in Short Term Training on Biomedical Instrumentation and Techniques of Medical Imaging and Diagnosis, Mumbai, India, 2012.
- P. Nagabhushana et al., "Participated in national level technical symposium, bionix 2011," in *BIONIX* 2011, Chennai, India, 2011.
- P. Nagabhushana et al., "Presented traffic signal controls using nxp microcontroller at intercollege mini project competition impetus," in Intercollege Mini Project Competition Impetus, Bangalore, India, 2011.