

ANANDHU PRESANNAN

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PROFESSIONAL SUMMARY

Data Analyst and Bioinformatician with 4 years of experience in data analytics, automation, and software development. Strong cross-disciplinary background with a postgraduate degree in Bioinformatics and a foundational education in biotechnology. Skilled in data transformation, and reporting. Proven expertise in using Power Platform tools (Power Automate, PowerBI), Python, and R for analytical workflows.

SKILLS

- **Microsoft Tools:** Power Automate, Power BI, Excel, Microsoft 365, List, Sharepoint
 - **Programming Languages:** Python, R, MATLAB, Perl, HTML, JavaScript
 - **Bioinformatics Tools:** Computational modelling, machine learning, data visualization
 - **Video Editing & Design:** Adobe Suite (Photoshop, Premiere Pro, After Effects), DaVinci Resolve
 - **Languages:** English (Fluent), Hindi (Basic), Malayalam (Fluent)
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PROFESSIONAL EXPERIENCE

Cross-Functional Collaboration & IT Support

- Collaborated with the university's central IT department to support and streamline academic workflows.
- Acted as a liaison between the institute and IT team, ensuring effective communication and implementation of academic digital solutions.
- Developed a custom Stay-Back and Duty leave application system using Microsoft Power Automate to optimize students tracking processes.
- Created an automated Research Statistical Cell using Power Automate and Power BI to improving process efficiency and documentation for research data.

Assistant Professor (Contract)

Amrita Vishwa Vidyapeetham, Kollam, Kerala

February 2025 – Present

- Teach **R Programming** for MSc Bioinformatics students and **Information Systems** for UG students.
- Conducting class for B.Tech AI and Data Science students.
- Provided automation solutions using **Power Automate** and visualized outputs using **Power BI** for academic administration.
- Guided student research projects focused on bioinformatics and computational biology.

Faculty Associate

Amrita Vishwa Vidyapeetham, Kollam, Kerala

September 2021 –January 2025

- Led small- to medium-scale data analytics projects for the institution.
- Integrated **Power Platform applications** into academic workflows.
- Mentored students in programming, data science, and systems biology modeling.
- Managed technical content and outreach via institutional digital channels.

Research Assistant

Amrita Vishwa Vidyapeetham, Kollam, Kerala

June 2019 – August 2021

- Developed bioinformatics e-learning platforms and simulation tools.
- Created automated data pipelines and dashboards for project reporting.
- Collaborated with interdisciplinary teams in analytics and data science.

Project Assistant – Computational Neuroscience Lab

Amrita Vishwa Vidyapeetham, Kollam, Kerala

June 2018 – May 2019

- Designed and implemented neuronal network models using Python and NEURON.

EDUCATION

M.Sc. in Bioinformatics

Amrita Vishwa Vidyapeetham, Kollam, Kerala

July 2016 – June 2018

B.Sc. in Biotechnology

Amrita Vishwa Vidyapeetham, Kollam, Kerala

July 2013 – June 2016

PUBLICATIONS

- **Anandhu Presannan, Shyam Diwakar** (2019). *ReConvPy: Modeling Local Field Potentials of Cerebellum Granule Neurons using Repetitive Convolutions in Python*. ELSEVIER.
 - *Reproducing the firing properties of a cerebellum deep cerebellar nucleus with a multi-compartmental morphologically realistic biophysical model*. IEEE (2018).
 - *Epigenetics, Genomics Imprinting, and Non-Coding RNAs*. ELSEVIER (2023).
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ACTIVITIES & LEADERSHIP

- Core Faculty Member of VIDYUT (Campus Multi-Fest Organizer).
- Experienced in photography, videography, and creative content development for academic and digital media.
- Organized and managed cultural and scientific events at Amrita School of Biotechnology.
- Volunteered for Chinmaya International Foundation (CIF), conducting educational camps.
- Core member Amrita Yuva Dharma Dhara (AYUDH) programs (2014-2018).
- Presented research at the 7th International Conference on Advances in Computing, Communications, and Informatics (ICACCI-2018).