

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 computer science. Skilled in data transformation, and reporting. Proven expertise in using Power Platform tools (Power Automate, Power Apps), Python, and R for analytical workflows.

SKILLS

- **Microsoft Tools:** Power Automate, Power BI, Excel, Microsoft 365, Google Workspace
- **Programming Languages:** Python, R, MATLAB, JavaScript, Perl
- **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)

PROFESSIONAL EXPERIENCE

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.
- Coordinated data projects including transformation and analysis pipelines.
- 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).