NAVEEN **KANNAN**

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Data Scientist with extensive experience working with R, Python, GIS and SQL. Expertise in visualizing data and synthesizing data into high-impact graphics and plots using ggplot. Able to create accessible and readable maps utilizing big spatial data and GIS. Able to execute and automate data extraction and analysis utilizing data mining and algorithmic techniques. Extensive experience in creating and interpreting different types of regression models. Significant experience conducting statistical analysis on healthcare data. Adept at synthesizing complex data into actionable reporting, proposals, and specification writing.

SKILLS

- **Python** – PANDAS, Keras, Numpy, scikitlearn
- **R** – Advanced Statistical Analysis, Regression Analysis, R Markdown
- **ggplot** – Creating High-impact plots, graphics, and tables
- **SQL** – Genomic Database Queries

- Creating and Interpreting Regression Models
- Algorithmic and Data Mining techniques
- Scientific Writing for Publications

EXPERIENCE

MAY 2022 – PRESENT
GRADUATE RESEARCH ASSISTANT, GIS HEALTH AND HAZARDS LAB, SCHOOL OF MEDICINE, CASE WESTERN RESERVE UNIVERSITY, CLEVELAND – OH

- Created scripts in Python to automate the process of obtaining GPS coordinate data from GPX files of geospatial video feed from refugee camp sites located in the Democratic Republic of Congo.
- Cleaned the data and wrangled it into a machine-readable format.
- Utilized automated scripts to generate maps from the wrangled GPS coordinates.
- Utilized automated Python scripts to parse video feed into individual frames and apply Machine Learning Algorithms to detect tents in each individual video frame.
- Work was critical and essential for the publication of an article in a Scientific Journal.

OCTOBER 2020 – MARCH 2021
MEDICAL OBSERVER, KAUVERY HOSPITALS, CHENNAI, INDIA

- Assisted senior doctors with the management of patients in the outpatient department to ensure proper diagnosis and treatment.
- Provided counseling to patients regarding medication adherence, side effects, and follow-up.
- Learned surgical and anesthetic skills under the guidance of senior surgeons.

JULY 2020 – SEPTEMBER 2020

JUNIOR RESIDENT DOCTOR, DEPARTMENT OF PSYCHIATRY, SAVEETHA MEDICAL COLLEGE, INDIA

- Diagnosed and managed patients with psychiatric illnesses.
- Learned to evaluate and diagnose patients in stressful environments.
- Assigned a goal of management of five patients per day, which was met.

MARCH 2019 – MARCH 2020

INTERN DOCTOR, MADRAS MEDICAL COLLEGE, INDIA

Rotated through the following departments: Internal Medicine, General Surgery, Obstetrics and Gynecology, Community Medicine, Psychiatry, Emergency Trauma Ward, Labor Ward.

- Managed an average of 40 patients per day in an outpatient setting.
- Admitted patients who required admissions into wards and prescribed routine investigations.
- Responsible for managing patients in the wards and ensuring proper management.
- Performed surgical procedures, both major and minor, and assisted senior doctors with major surgeries.
- Wrote prescriptions, advised patients on follow-up and adherence.

EDUCATION

JANUARY 2022 – MAY 2023(EXPECTED)

M.S IN BIOMEDICAL AND HEALTH INFORMATICS, CASE WESTERN RESERVE UNIVERSITY, CLEVELAND, OH

SEPTEMBER 2016 - MARCH 2020

BACHELOR OF MEDICINE AND BACHELOR OF SURGERY, MADRAS MEDICAL COLLEGE, CHENNAI, INDIA

GPA – 4.0/4.0

PUBLICATIONS

- Segamalai, D., Abdul Jameel, A. R., **Kannan, N**., Anbalagan, A., Duraisamy, B., Raju, P., & Devy Gounder, K. (2017). **Mediastinal pseudocyst: varied presentations and management—experience from a tertiary referral care centre in India**. *HPB Surgery*, *2017*.
- Vellaisamy, R., **Kannan, N**., Anbalagan, A., Raju, P., Duraisamy, B., Murugesan, C. S., & Gounder, K. D. (2016). **Endoscopic access to hepatic duct through duodenum during follow up–after primary surgery for hepatolithiasis**. *HPB*, *18*, e530.
- Ramasamy, V., Vellaisamy, R., **Kannan, N**., & Gounder, K. D. (2016). **Refined technique of access loop in hepatobiliary surgery.** *HPB*, *18*, e593-e594.
- **Kannan, N**., Vellaisamy, R., Govindarajan, M., & Gounder, K. D. (2016). **Pellagra following pancreaticoduodenectomy for malignant pancreatic carcinoid with pluripotent hormonal potential**. *HPB*, *18*, e381-e382.

INVOLVEMENT

Steiner House – 11408, Bellflower Road, Cleveland, OH - 44106

The Cleveland Student Housing Association, Inc. - a 501(c)3 not-for-profit Co-operative - has been providing affordable room and board for Cleveland area graduate students from more than 75 countries, primarily aimed at international graduate students.

VICE PRESIDENT
MAY 2022 – PRESENT
- Welcomed new residents, introduced them to other members, and oriented them to house rules.
- Liaison between house members and the executive board of the house to communicate information on house management.
- Organized social events once per month to foster friendship and team spirit among the house members of different cultures.
- Lead the executive committee alongside the president to manage day-to-day house functioning.

ADMISSIONS MANAGER
MAY 2022 – SEPTEMBER 2022
- Represented current house members to screen applications, conduct interviews, and evaluate candidates
- Communicated the results of said interviews to the rest of the house to assess the status of a potential new resident.
- Admitted graduate students from around the world, including countries such as India, Bangladesh, Iran, Thailand, China, Vietnam, Nigeria, and Ireland to Steiner House and assisted them with the process of moving to the United States.
- Admitted 8 graduate students into Steiner House as residents.

ORDERING MANAGER
MAY 2022 – SEPTEMBER 2022
- Managed inventory for Steiner House, with a capacity of 21 students.
- Responsible for ensuring a steady supply of consumables and non-consumables for the smooth functioning of the House.
- Scheduled tri-weekly restocking runs to ensure that supplies necessary for house functioning would not run out