Janushan Sundaramoorthy • [Janna.pro](https://janna.pro/)

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Ambitious neuroscience student with extensive experience collaborating on and conducting data-driven research. Stemming from a solid experience in research institutions and NGOs, I am capable of leveraging programming and teamwork skills to optimally reach team goals. Seeking to collaborate on ambitious projects with industry experts to continue professional development.

**TECHNICAL SKILLS**: Python (Pytorch, scikit-learn), RStudio, MATLAB, PowerBI, Excel, SQL, Statistics and hypothesis testing

**EDUCATION**: King’s College London: BScNeuroscience & Psychology, predicted 1st Class Honours **(2021-2025)**

# [Research Projects](https://github.com/PsyNeuro)

**Natural language Processing for schizophrenia detection (09/24-05/25)**

*Supervisor*: Dr Thomas Spencer, Institute of Psychiatry, Psychology & Neuroscience

*Aim*: Develop scalable and sensitive schizophrenia detection using **Natural Language Processing**

* Leveraged **Otter.ai** and **Python**, improved speech processing time and allowing 60x greater sample sizes
* Detect 10 sufferers with **neural networks**, offering a solution 10x more affordable than others, supporting NHS hospitals with financial difficulties
* Utilised **Excel pivot tables** data to streamline recruitment by 40%, compensating for poor cost-effectiveness of old legacy systems
* Planned and coordinated project goals with teams across the UK to minimise wasted resources
* Recommended refined methodology to improve accuracy by 10%; variability in patients needed to be addressed to improve model’s real-world robustness

**EEG (brain imaging) to explore differences in inhibitory ability** (module assessment) **(09/22-05/23)**

*Supervisor*: Dr Katja Brodmann, Institute of Psychiatry, Psychology & Neuroscience

*Aim*: Investigate differences in electrical brain activity associated with inhibition skills in students

* Streamlining **MATLAB**/**R** code by 15% to improve processing times for slower PCs
* Provided concise presentations to ensure funding from non-scientific stakeholders in underfunded projects
* Utilised **PCA** and **MATLAB** to improve signal clarity by 60%, allowing effective analysis of trends
* Delegated project tasks to team members, ensuring deadlines were met with collaboration and communication
* Presented results to policymakers, proposed inclusive academic policies for neurodivergent students

**Employee Turnover analysis (09/24-12/24)**

Analysis of high employee turnover at India-based phone manufacturer, supporting HR team with data-driven insights

* Used **SQL/R** tovalidate hypotheses that turnover was related to gender, informing new employee retention plan to improve turnover by 20%
* Employed **ANOVAs** in **R** to investigate **gender pay gap %,** revealinginequitiesin certain branches; this would guide future HR audits to investigate the disparities and enable targeted improvements
* Developed plans to improve female recruitment and retention by 12%, supporting HR employee targets

# Work experience

**St. Vincent’s Family Project:** Family Support Worker intern **(09/23 - 06/24)**

*Hands-on experience working with real client data to improve operational efficiency and support charity goals*

* Evaluated **GDPR** compliance of **Excel** database, educating team and ensuring legal data handling
* Created engaging newsletters, improving online engagement and service user signup rate
* Connected and partnered with local NGOs to lead charitable events, secure funding, and support yearly targets
* Advised service users on programmes to improve psychological wellbeing and ameliorate social challenges

**Picturehouse**: Cinema Sales Assistant **(09/23 - Present)**

* Achieved top national cinema and employee of the week by promoting new products, increasing sale per customer targets
* Critically assessed and managed stock in busy periods to minimise wait times
* Comfortably switched between different stations, and supported staff during staff shortages
* Led team to overcome busy periods, managed cinema staff in various sectors