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Srivas Chennu

Nationality: British

Profile

I specialise in turning data science problems into scalable solution prototypes for real-world applications. A computational neuroscientist with 10+ years of R&D experience, I have a background in computer science. Have worked as a data science consultant and as a software engineer.

Employment

Data Science Consultant Rsrchxchange Ltd., UK 2017-present

- Developed latent factor model to power recommendation engine for customisation of user experience.
- Built text analysis model based on neural networks to discover natural language content similarity.

Assistant Professor University of Kent, UK 2016-present

Senior Research Associate University of Cambridge, UK 2010-present

- Develop **machine learning** tools for modelling human cognition
- Build **monitoring** and **brain-computer interfacing** systems for healthcare applications
- Have attracted £600,000+ of competitive research **grant funding**

Member of Technical Staff Oracle Corporation, India 2002-2004

- Software engineer in the *Oracle Reports* team, a part of Oracle's *Internet Application Server* platform

Education

PhD in Computer Science University of Kent, Canterbury, UK 2006-2009

Thesis title: ***The temporal spotlight of attention: computational and electrophysiological explorations*** (approved with no corrections at viva held on 16th March 2010)

MSc in Information and Communication Systems Hamburg University of Technology 2004-2006
Hamburg, Germany

Overall ECTS grade: 1.3 (Very Good; Passed with Distinction)

BEng in Computer Science and Engineering Visveswaraiah Technological University 1998-2002
Bangalore, India

Overall percentage score - 81.46% (First Class with Distinction)

Writing and Public Speaking

- Published **40+** peer-reviewed scientific articles in prominent journals, with **18** as primary author
- Prepared and delivered more than **25+** invited talks at international scientific conferences
- Have given public talks and demos at **Cambridge Science Festival** and **New Scientist Live**

Media Coverage and Public Engagement

- My research and data visualisation has been extensively profiled by online and print **news**, including the *BBC*, *New Scientist*, *Scientific American*, *Der Spiegel*, *Science*, and *Wired Magazine*
- Have given **radio** and **TV** interviews and expert commentary to the *BBC World Service*, *BBC Radio 4 Today & 5 Live*, *BBC News 24*, *Discovery Channel*, and *Al Jazeera TV*

Research and Technical Skills

- Machine Learning, Data Science and Visualisation
- Digital Signal Processing and Time Series Analysis

- Graph Theory and Network Analysis
- Parametric, Non-parametric and Bayesian Statistical Methods
- Cognitive Neuroscience and Computational Modelling
- Computer Networking and Security, Operating Systems
- **Tools:** Python, MATLAB, R, Apache Spark, Hadoop
- **Programming Languages:** Python, MATLAB, JAVA, C, C++

Project Management

- **Manage** and **support** team of 2 postdoctoral scientists and 3 PhD students.
- Perform complex **data analytics** and timely **reporting** as a part of ongoing research studies
- Regularly **present research progress** at annual collaboration meetings
- Have **supervised** 10 research projects and regularly mentor students

Academic and Organisational Experience

- **Peer-reviewer** for reputed scientific journals including *PLOS* and *Frontiers*
- Have **organised** international conferences funded by the Royal Society
- Have served as an **examiner** for MPhil and PhD research theses

Previous Research Experience

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|--|--|-----------|
| Research Assistant | Fraunhofer Institute for Telecommunications
Berlin, Germany | 2005-2006 |
| <ul style="list-style-type: none"> • Worked on the EU-funded IST <i>Multi Service Access Everywhere</i> project on QoS-aware broadband internet access using resilient optical access rings | | |
| Research Assistant | Hamburg University of Technology
Hamburg, Germany | 2004-2005 |
| <ul style="list-style-type: none"> • Developed an algorithmic methodology for verifiable decentralization of modular real-time control systems represented as timed automata | | |
| Project Trainee | Indian Institute of Science, Bangalore, India | 2002 |
| <ul style="list-style-type: none"> • Implemented algorithms and user interface software for display and manipulation of image formats | | |

Selected Academic Publications

- Chennu, S., Annen, J., Wannez, S., Thibaut, A., Chatelle, C., Cassol, H., Martens, G., et al.** 2017. Brain networks predict metabolism, diagnosis and prognosis at the bedside in disorders of consciousness. *Brain (IF 10.1)*, 140(8), 2120-2132.
- Chennu, S., Finoia, P. et al.** 2014. Spectral signatures of reorganised brain networks in disorders of consciousness. *PLOS Computational Biology (IF 4.8)*, 10(10), e1003887
- Chennu, S., Noreika, V. et al.** 2013. Expectation and Attention in Hierarchical Auditory Prediction. *The Journal of Neuroscience (IF 6.7)*, 33(27), 11194-11205.
- Cruse, D., **Chennu, S.** et al. 2011. Bedside detection of awareness in the vegetative state: a cohort study. *The Lancet (IF 39.2)*, 378(9809), 2088-2094.
- Chennu, S., Alsufyani, A., Filetti, M., Owen, A. & Bowman, H.** 2013. The cost of space independence in P300-BCI spellers. *Journal of NeuroEngineering and Rehabilitation*, 10(1), 82.