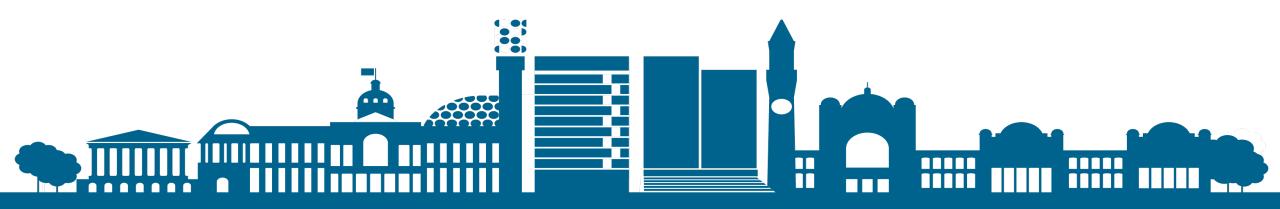
Business School and AI

Thursday 24th November, 2022 Dr Jenny Wong Senior Research Software Engineer, BEAR



Overview

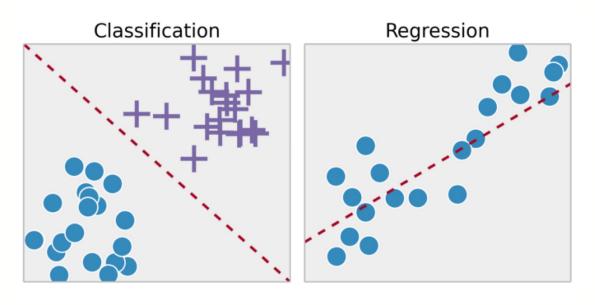
Al Software and Tools

- User case studies
 - Claire (Duiyi) Dai Textual Analysis and Machine Learning in my Economics Research
 - Binzhi Chen How Bluebear helps Business School Research? From the perspective of econometrics
 - Bowen Liu When econometrics meets machine learning: application in Environmental Economics

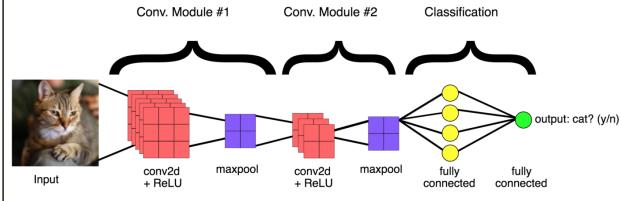


AI: Machine and Deep Learning

MACHINE LEARNING



DEEP LEARNING





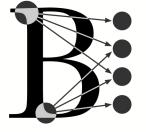
BlueBEAR & Baskerville HPC

BlueBEAR

- Institutional Tier 3 HPC facility
- Available to all researchers at UoB
 - Register a BEAR Project through your PI
 - Have a BEAR Linux account
- Resources
 - 180 nodes
 - 6 GPUs across 4 nodes
 - 3TB of RDS storage per project
- Link to further information



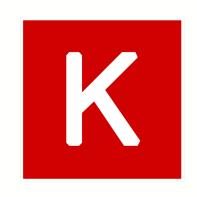
Baskerville



- National Tier 2 HPC facility
- Available to researchers at UoB on request
 - Register a Baskerville Project through your PI
- Resources
 - 52 nodes
 - 208 GPUs
 - 1TB of RDS storage per project
- Link to further information

AI with Python 💨

















• AER - Applied Econometrics with R

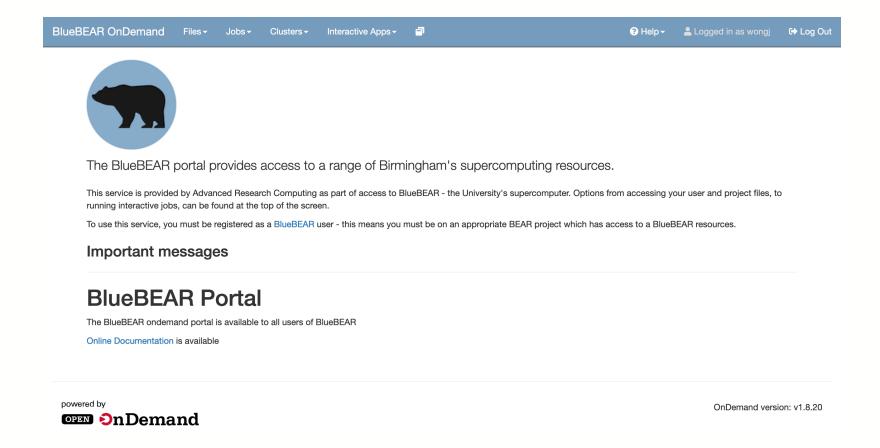
quantmod – Quantitative financial modelling

• survival — survival analysis

• tseries - Time series analysis and computational finance



Live Demo





Further Information

- BEAR https://intranet.birmingham.ac.uk/it/teams/infrastructure/research/bear/index.aspx
- Baskerville https://www.baskerville.ac.uk/
- Slack bham-rse.slack.com
- IT Service Portal https://universityofbirmingham.service-now.com/itportal/
- BEAR Drop-ins https://intranet.birmingham.ac.uk/it/teams/infrastructure/research/bear/events/public/data-drop-in-sessions.aspx
- Using R for Introductory Econometrics http://www.urfie.net/

