

📧 ashishtibrewal.github.io | 🌐 ashishtibrewal | in tibrewalashish
✉ ashish.tibrewal@hotmail.com | 📞 +44 (0) 7841 367262 | 🏠 1F, 47 York Place, Edinburgh

Education

University of Edinburgh Edinburgh, UK
MSc Artificial Intelligence | Distinction (On track) | Expected August 2020 Sep 2018 – Present
Relevant Courses: Machine Learning & Pattern Recognition, Machine Learning Practical, Extreme Computing, Probabilistic Modelling and Reasoning, Reinforcement Learning, Foundations of Natural Language Processing, Algorithmic Game Theory

University of Bristol Bristol, UK
MEng Computer Science & Electronics | Upper Second Class Honours (2.1) 2012 – 2016

The Assam Valley School Assam, India
Indian School Certificate (Equivalent to U.K. A Levels) | Grade: 91% 2010 – 2012
Indian Certificate of Secondary Education (Equivalent to U.K. GCSE) | Grade: 89% 2004 – 2010

Experience

HCL Technologies New Delhi, India
Software Engineer | Business Services AI/ML Team Oct 2017 – Jul 2018

- Researched and developed AI/ML products (PoCs and MVPs) for several HCL clients
- Designed signature localisation and offline verification system using deep learning techniques (YOLO and SigNet) for cheque, invoice, and form processing with an accuracy of 70%
- Researched techniques for one-shot learning and forgery detection using Siamese Networks
- Involved in the entire data pipeline including data sourcing/collection, generation, annotation, cleaning, preprocessing, and iterative training, tuning, and model evaluation, data augmentation for training YOLO, and documentation

Renishaw plc Wotton-under-Edge, UK
Research Engineer Intern | Group Engineering Team Jan 2015 – Sep 2015

- Researched and built a prototype of a passive non-contact 3D scanner
- Designed, developed, and analysed a serial communication and PI control system, including low-level design synthesis
- Designed an application to interface with the scanning system along with APIs to support EmguCV & MS SQL Server
- Optimised performance by implementing a multi-threaded design, and integrated support for MATLAB and GNU Octave to run image processing scripts using OLE Automation
- Drafted comprehensive documentation covering design and implementation details including software documentation. Involved in frequent code/design reviews and presentations with senior members of the team

Hidden Brains InfoTech Ahmedabad, India
Software Analyst Intern | Planning, Analysis & Prototyping Team Aug 2014 – Sep 2014

- Analysed client proposal documents, drafted software requirements specification (SRS), scope of work, business requirement, and database documents
- Designed UML models for several website and mobile application development projects
- Improved existing SRS documents to minimise development required reducing delivery time and costs

Skills

Programming (Proficient): C, C#, Java, Python, MATLAB, Bash, \LaTeX
Programming (Working knowledge): C++, SQL, HTML, CSS, JavaScript, Haskell, PHP, VHDL, Verilog
Machine Learning: Probabilistic Modelling, Data Visualisation, Hadoop (MapReduce), Deep Learning (CNN, RNN)
Software Engineering: Agile (Scrum & Kanban), DevOps, TDD, CI/CD, Git, UML, Web & Mobile Development
Languages: English (Fluent), Hindi (Fluent), Assamese (Native)
Interests: Coding, Reading, Photography, Sports (Lawn Tennis, Squash & Football), Cooking/Baking, Travelling

Awards & Achievements

Selected for 3 Day Startup (3DS), Edinburgh 2018
Selected for Facebook Analytics Academy, London 2018
Dean's International Intern Scholarship Scheme (Nomination & honourable mention) 2014
Barry Thomas Scholarship for Computer Science 2012
Lawn Tennis Team Captain at the Assam Valley School 2010 – 2012
Major Colours for Lawn Tennis and Photography, and Minor Colours for Squash 2008 – 2011
Delegate to the International Exchange Programme, Sydney 2010
Represented Assam at the Junior National Squash Championships, Ajmer 2007