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Gaurav Kumar Dwivedi

Personal Information

Date and Place of Birth: **23/05/1988**, *Varanasi*, U.P., India.

Nationality: **Indian**.

Marital Status: **Single**.

Education

2011–2014 **M.Sc.(Tech) Geophysics**, *Department of Geophysics*, Banaras Hindu University, Varanasi, India.
CGPA 8.32/10

2007–2011 **B.Sc.(Hons) Mathematics**, *(Mathematics, Statistics, Physics)*, Faculty of Science, Banaras Hindu University, Varanasi, India.
Second Div.

2005 **Intermediate**, *Govt. Queen's Inter College*, Varanasi, *First Div.*

2003 **High School**, *Govt. Queen's Inter College*, Varanasi, *First Div.*

Master thesis

Title: *Multicomponent Seismic Data Acquisition & Processing*

Supervisors: Dr. T. Lal
Professor Emeritus
Department of Geophysics,
Banaras Hindu University, India

Experience

Vocational

Jan, 2014 **Field Training**, *ONGC, GP-17*, Asansol, WB,
2-D 3-C High Resolution Seismic Survey for CBM .

May-Jun, 2013 **Summer Internship**, *NGRI*, Hyaderabad.
Application of Soft Computing In Forecasting.

Jan, 2012 **Geophysical Field Training**, *Banaras Hindu Univesity*, Varanasi.

Dec-Jan,2011-12 **Educational Tour**, *ONGC-SPIC*, Mumbai.

Miscellaneous

Sep 2014-Jan 2015 **Trainee Seismologist**, *AlphaGeo India Ltd.*, Hyderabad, Resigned to pursue research career. .

Languages

Hindi	**Fluent**	*Mother Tongue*
English	**Fluent**	*Language of Instruction in Bachelor and Master Studies*

Computer skills

OS

Unix Based	Linux (Debian, RedHat)(admin. level)
DOS Based	Win XP, Win7

Application Software

Advanced	Seismic Un*x, Madagascar, Matlab
Basic	Petrel, Ocean API, Mathematica
Familiar	OpendTect API, Auto CAD

Programming Languages

Advanced	$C/C++$, Python, Fortran, LaTeX
Basic	C#, Shell(Bash)
Familiar	Java, Haskell

Interests

Inversion	Mathematical foundations of Inverse Theory.
Sparse Data Processing in seismic	I have experience of wavelet in seismic data processing using Seismic Unix.
Machine Learning & Data Mining	Application of machine learning and Intelligent Data Management in Oil E&P.
Reservoir Characterization	Fuzzy Clustering of well logs, Genetic Algorithm for inversion, Geostatistics

Publications

[1] Sunjay, M. Banerjee, and **G.K. Dwivedi**. Big data analytics for seismic imaging. In *24th International Conference - FIM 2015 Barcelona*. 2015.

[2] Sunjay, M. Banerjee, R. K. Singh, **G.K. Dwivedi**, and P.K. Chaubey. Big data analytics for hydrocarbon exploration and production. In *30th ANNUAL NATIONAL CONFERENCE OF THE MATHEMATICAL SOCIETY-BHU ON MATHEMATICAL ANALYSIS AND APPLICATIONS*

during January30-31, 2015, in the Department of Mathematics, Faculty of Science, Banaras Hindu University, Varanasi. 2015.

[3] Sunjay, M. Banerjee, R. K. Singh, **G.K. Dwivedi**, and P.K. Chaubey. Borehole seismic data analysis by wavelet transform. In *30th ANNUAL NATIONAL CONFERENCE OF THE MATHEMATICAL SOCIETY-BHU ON MATHEMATICAL ANALYSIS AND APPLICATIONS during January30-31, 2015, in the Department of Mathematics, University, Varanasi.* 2015.